



NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: Jefferson County Commission
Environmental Services Department
Suite A-300
716 Richard Arrington Jr. Blvd. N.
Birmingham, Alabama 35203

FACILITY LOCATION: Five Mile Creek WWTP (30 MGD)
3410 Happy Hollow Lane
Fultondale, Alabama
Jefferson County

PERMIT NUMBER: AL0026913

RECEIVING WATERS: Five Mile Creek

In accordance with and subject to the provisions of the Federal Water Pollution Control Act, as amended, 33 U.S.C. §§1251-1378 (the "FWPCA"), the Alabama Water Pollution Control Act, as amended, Code of Alabama 1975, §§ 22-22-1 to 22-22-14 (the "AWPCA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, §§22-22A-1 to 22-22A-15, and rules and regulations adopted thereunder, and subject further to the terms and conditions set forth in this permit, the Permittee is hereby authorized to discharge into the above-named receiving waters.

ISSUANCE DATE:

EFFECTIVE DATE:

EXPIRATION DATE:

Draft

Alabama Department of Environmental Management

MUNICIPAL SECTION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
PERMIT

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PART I**DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS****A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS****1. Outfall 0011 Discharge Limits for Summer Season****MAY - NOVEMBER**

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 0011, which is described more fully in the Permittee's application. Such discharge shall be limited for the months of May – November and monitored by the Permittee as specified below:

| Parameter | Discharge Limitation* | | | | | | | Monitoring Requirements** | | |
|---|------------------------------|-----------------------|------------------------|-----------------------|----------------------|----------------------|------------------------|----------------------------------|------------------------|----------------------------------|
| | Monthly Average | Weekly Average | Monthly Average | Weekly Average | Daily Minimum | Daily Maximum | Percent Removal | (1) Sample Location | (2) Sample Type | (3) Measurement Frequency |
| Oxygen, Dissolved (DO) 00300 I 0 0 | ***** | ***** | ***** | ***** | 6.0 mg/l | ***** | ***** | E | GRAB | B |
| pH 00400 I 0 0 | ***** | ***** | ***** | ***** | 6.0 S.U. | 8.5 S.U. | ***** | E | GRAB | B |
| Solids, Total Suspended 00530 G 0 0 | REPORT lbs/day | REPORT lbs/day | REPORT mg/l | REPORT mg/l | ***** | ***** | ***** | I | COMP24 | B |
| Solids, Total Suspended 00530 I 0 0 | 7506 lbs/day | 11259 lbs/day | 30.0 mg/l | 45.0 mg/l | ***** | ***** | ***** | E | COMP24 | B |
| Ammonia, Total (As N) 00610 I S 0 | 500 lbs/day | 750 lbs/day | 2.0 mg/l | 3.0 mg/l | ***** | ***** | ***** | E | COMP24 | B |
| Nitrogen, Total Kjeldahl 00625 I S 0 | 1000 lbs/day | 1501 lbs/day | 4.0 mg/l | 6.0 mg/l | ***** | ***** | ***** | E | COMP24 | B |
| Nitrite Plus Nitrate, Total (As N) 00630 I 0 0 | REPORT lbs/day | REPORT lbs/day | REPORT mg/l | REPORT mg/l | ***** | ***** | ***** | E | COMP24 | B |
| Phosphorus, Total 00665 I 0 0 | REPORT lbs/day | REPORT lbs/day | REPORT mg/l | REPORT mg/l | ***** | ***** | ***** | E | COMP24 | B |
| Flow, In Conduit or Thru Treatment Plant 50050 I 0 0 | REPORT MGD | ***** | ***** | ***** | ***** | REPORT MGD | ***** | E | CONTIN | A |
| Chlorine, Total Residual (See Note (4)) 50060 I 0 0 | ***** | ***** | ***** | ***** | ***** | 0.01 mg/l | ***** | E | GRAB | B |
| Coliform, Fecal General 74055 I 0 0 | ***** | ***** | See Note (FC) | ***** | ***** | 2000 col/100mL | ***** | E | GRAB | B |
| BOD, Carbonaceous 05 Day, 20C 80082 G 0 0 | REPORT lbs/day | REPORT lbs/day | REPORT mg/l | REPORT mg/l | ***** | ***** | ***** | I | COMP24 | B |
| BOD, Carbonaceous 05 Day, 20C 80082 I S 0 | 1501 lbs/day | 2251 lbs/day | 6.0 mg/l | 9.0 mg/l | ***** | ***** | ***** | E | COMP24 | B |
| Solids, Suspended Percent Removal 81011 K 0 0 | ***** | ***** | ***** | ***** | ***** | ***** | 85 % | K | CALCTD | G |

* See Part II.C.1. (Bypass); Part II.C.2. (Upset)

** Monitoring Requirements

(1) Sample Location:

I – Influent

E – Effluent

X – End Chlorine Contact Chamber

K – Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.

RS – Receiving Stream

(2) Sample Type:

CONTIN - Continuous

INSTANT - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB - Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

F - 2 days per month

G - 1 day per month

H - 1 day per quarter

J - Annual

Q - For Effluent Toxicity

Testing, see Provision IV.B.

(FC) Fecal Coliform: Monthly Avg

October through May – 1000 col/100mL

June through September – 200 col/100mL

(4) See Part IV.C for Chlorine, Total Residual. Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter "NODI=9" on the monthly DMR.

2. Outfall 0011 Discharge Limits for Winter Season

DECEMBER - APRIL

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfall 0011, which is described more fully in the Permittee's application. Such discharge shall be limited for the months of December-April and monitored by the Permittee as specified below:

| Parameter | Discharge Limitation* | | | | | | | Monitoring Requirements** | | |
|---|-----------------------|-------------------|------------------|----------------|---------------|-------------------|-----------------|---------------------------|-----------------|---------------------------|
| | Monthly Average | Weekly Average | Monthly Average | Weekly Average | Daily Minimum | Daily Maximum | Percent Removal | (1) Sample Location | (2) Sample Type | (3) Measurement Frequency |
| Oxygen, Dissolved (DO) 00300 I 0 0 | ***** | ***** | ***** | ***** | 6.0 mg/l | ***** | ***** | E | GRAB | B |
| pH 00400 I 0 0 | ***** | ***** | ***** | ***** | 6.0 S.U. | 8.5 S.U. | ***** | E | GRAB | B |
| Solids, Total Suspended 00530 G 0 0 | REPORT lbs/day | REPORT lbs/day | REPORT mg/l | REPORT mg/l | ***** | ***** | ***** | I | COMP24 | B |
| Solids, Total Suspended 00530 I 0 0 | 7506 lbs/day | 11259 lbs/day | 30.0 mg/l | 45.0 mg/l | ***** | ***** | ***** | E | COMP24 | B |
| Ammonia, Total (As N) 00610 I W 0 | 625 lbs/day | 938 lbs/day | 2.5 mg/l | 3.75 mg/l | ***** | ***** | ***** | E | COMP24 | B |
| Nitrogen, Total Kjeldahl 00625 I W 0 | 1251 lbs/day | 1876 lbs/day | 5.0 mg/l | 7.5 mg/l | ***** | ***** | ***** | E | COMP24 | B |
| Nitrite Plus Nitrate, Total (As N) 00630 I 0 0 | REPORT lbs/day | REPORT lbs/day | REPORT mg/l | REPORT mg/l | ***** | ***** | ***** | E | COMP24 | B |
| Phosphorus, Total 00665 I 0 0 | REPORT lbs/day | REPORT lbs/day | REPORT mg/l | REPORT mg/l | ***** | ***** | ***** | E | COMP24 | B |
| Flow, In Conduit or Thru Treatment Plant 50050 I 0 0 | REPORT MGD | ***** | ***** | ***** | ***** | REPORT MGD | ***** | E | CONTIN | A |
| Chlorine, Total Residual (See Note (4)) 50060 I 0 0 | ***** | ***** | ***** | ***** | ***** | 0.01 mg/l | ***** | E | GRAB | B |
| Coliform, Fecal General 74055 I 0 0 | ***** | ***** | See Note (FC) | ***** | ***** | 2000 col/100mL | ***** | E | GRAB | B |
| BOD, Carbonaceous 05 Day, 20C 80082 G 0 0 | REPORT lbs/day | REPORT lbs/day | REPORT mg/l | REPORT mg/l | ***** | ***** | ***** | I | COMP24 | B |
| BOD, Carbonaceous 05 Day, 20C 80082 I W 0 | 1751 lbs/day | 2627 lbs/day | 7.0 mg/l | 10.5 mg/l | ***** | ***** | ***** | E | COMP24 | B |
| Solids, Suspended Percent Removal 81011 K 0 0 | ***** | ***** | ***** | ***** | ***** | ***** | 85 % | K | CALCTD | G |

* See Part II.C.1. (Bypass); Part II.C.2. (Upset)

** Monitoring Requirements

(1) Sample Location:

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

(2) Sample Type:

CONTIN - Continuous

INSTANT - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB - Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

F - 2 days per month

G - 1 day per month

H - 1 day per quarter

J - Annual

Q - For Effluent Toxicity

Testing, see Provision IV.B.

(FC) Fecal Coliform: Monthly Avg

October through May - 1000 col/100mL

June through September - 200 col/100mL

(4) See Part IV.C for Chlorine, Total Residual. Monitoring for TRC is applicable if chlorine is utilized for disinfection purposes. If monitoring is not applicable during the monitoring period, enter "NODI=9" on the monthly DMR.

3. Outfall 001Q Discharge Limits

This is an administrative outfall designation. Outfall 001Q is the same physical outfall as Outfall 0011. Quarterly monitoring is to be accomplished by the Permittee as specified below:

| <u>Parameter</u> | <u>Discharge Limitation*</u> | | | | | | | <u>Monitoring Requirements**</u> | | |
|--|------------------------------|-----------------------|------------------------|-----------------------|----------------------|----------------------|------------------------|----------------------------------|------------------------|----------------------------------|
| | <u>Monthly Average</u> | <u>Weekly Average</u> | <u>Monthly Average</u> | <u>Weekly Average</u> | <u>Daily Minimum</u> | <u>Daily Maximum</u> | <u>Percent Removal</u> | <u>(1) Sample Location</u> | <u>(2) Sample Type</u> | <u>(3) Measurement Frequency</u> |
| Mercury Total Recoverable (See Note 4) 71901 1 0 0 | ***** | ***** | REPORT mg/l | ***** | ***** | REPORT mg/l | ***** | E | GRAB | H |

* See Part II.C.1. (Bypass); Part II.C.2. (Upset)

** Monitoring Requirements

(1) Sample Location

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

(2) Sample Type:

CONTIN - Continuous

INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB - Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week

F - 2 days per month

B - 5 days per week

G - 1 day per month

C - 3 days per week

H - 1 day per quarter

D - 2 days per week

J - Annual

E - 1 day per week

Q - For Effluent Toxicity

Testing, see Provision IV.B.

- (4) EPA Methods 1631E/1669 shall be used for the determination of compliance with this parameter. Mercury monitoring will become no longer applicable if the Permittee submits four consecutive quarterly monitoring results, using the aforementioned approved EPA methods, demonstrating that mercury concentrations are below the method detection level.

4. Outfall 001T Discharge Limits

This is an administrative outfall designation. Outfall 001T is the same physical outfall as Outfall 0011. Discharge from this outfall shall be limited and monitored by the Permittee as specified below:

| <u>Parameter</u> | <u>Discharge Limitation*</u> | | | | | | | <u>Monitoring Requirements**</u> | | |
|--|------------------------------|-----------------------|------------------------|-----------------------|----------------------|----------------------|------------------------|----------------------------------|------------------------|----------------------------------|
| | <u>Monthly Average</u> | <u>Weekly Average</u> | <u>Monthly Average</u> | <u>Weekly Average</u> | <u>Daily Minimum</u> | <u>Daily Maximum</u> | <u>Percent Removal</u> | <u>(1) Sample Location</u> | <u>(2) Sample Type</u> | <u>(3) Measurement Frequency</u> |
| Toxicity, Ceriodaphnia, Chronic 61426 1 0 0 | ***** | Pass = 0 Fail = 1 | ***** | ***** | ***** | ***** | ***** | E | COMP24 | Q |
| Toxicity, Pimephales, Chronic 61428 1 0 0 | ***** | Pass = 0 Fail = 1 | ***** | ***** | ***** | ***** | ***** | E | COMP24 | Q |

* See Part II.C.1. (Bypass); Part II.C.2. (Upset)

** Monitoring Requirements

(1) Sample Location

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

(2) Sample Type:

CONTIN - Continuous

INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB - Grab

CALCTD - Calculated

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

F - 2 days per month

G - 1 day per month

H - 1 day per quarter

J - Annual

Q - For Effluent Toxicity

Testing, see Provision IV.B.

5. Storm water Outfalls 002S, 003S, and 006S Discharge Limits

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from Outfalls 002S, 003S, and 006S, which are described in the application as storm water outfalls located at the Permittee's wastewater treatment plant. Discharge limitations and monitoring requirements shall apply to each outfall as follows:

| <u>Parameter</u> | <u>Discharge Limitation*</u> | | | | | | | <u>Monitoring Requirements**</u> | | |
|--|------------------------------|----------------------|------------------------|-----------------------|----------------------|----------------------|------------------------|----------------------------------|----------------------------|----------------------------------|
| | <u>Monthly Average</u> | <u>Daily Maximum</u> | <u>Monthly Average</u> | <u>Weekly Average</u> | <u>Daily Minimum</u> | <u>Daily Maximum</u> | <u>Percent Removal</u> | <u>(1) Sample Location</u> | <u>(2) (4) Sample Type</u> | <u>(3) Measurement Frequency</u> |
| Oxygen, Dissolved (DO) 00300 1 0 0 | ***** | ***** | ***** | ***** | REPORT mg/l | REPORT mg/l | ***** | E | FFGS | J |
| pH 00400 1 0 0 | ***** | ***** | ***** | ***** | REPORT S.U. | REPORT S.U. | ***** | E | FFGS | J |
| Solids, Total Suspended 00530 1 0 0 | ***** | REPORT lbs/day | ***** | ***** | ***** | REPORT mg/l | ***** | E | FFGS | J |
| Ammonia, Total (As N) 00610 1 0 0 | ***** | REPORT lbs/day | ***** | ***** | ***** | REPORT mg/l | ***** | E | FFGS | J |
| Nitrogen, Total Kjeldahl 00625 1 0 0 | ***** | REPORT lbs/day | ***** | ***** | ***** | REPORT mg/l | ***** | E | FFGS | J |
| Nitrite Plus Nitrate, Total (As N) 00630 1 0 0 | ***** | REPORT lbs/day | ***** | ***** | ***** | REPORT mg/l | ***** | E | FFGS | J |
| Phosphorus, Total 00665 1 0 0 | ***** | REPORT lbs/day | ***** | ***** | ***** | REPORT mg/l | ***** | E | FFGS | J |
| Flow, In Conduit or Thru Treatment Plant 50050 1 0 0 | REPORT MGD | ***** | ***** | ***** | ***** | REPORT MGD | ***** | E | CALCTD (See Note (5)) | J |
| Chlorine, Total Residual 50060 1 0 0 | ***** | ***** | ***** | ***** | ***** | REPORT mg/l | ***** | E | FFGS | J |
| Coliform, Fecal General 74055 1 0 0 | ***** | ***** | ***** | ***** | ***** | REPORT col/100mL | ***** | E | FFGS | J |
| BOD, Carbonaceous 05 Day, 20C 80082 1 0 0 | ***** | REPORT lbs/day | ***** | ***** | ***** | REPORT mg/l | ***** | E | FFGS | J |

* See Part II.C.1 (Bypass); Part II.C.2 (Upset); and Part IV.F (Storm water Requirements)

** Monitoring Requirements

(1) Sample Location

I - Influent

E - Effluent

X - End Chlorine Contact Chamber

K - Percent Removal of the Monthly Avg. Influent Concentration from the Monthly Avg. Effluent Concentration.

RS - Receiving Stream

(2) Sample Type:

CONTIN - Continuous

INSTAN - Instantaneous

COMP-8 - 8-Hour Composite

COMP24 - 24-Hour Composite

GRAB - Grab

CALCTD - Calculated

FFGS - See below

(3) Measurement Frequency: See also Part I.B.2.

A - 7 days per week

B - 5 days per week

C - 3 days per week

D - 2 days per week

E - 1 day per week

F - 2 days per month

G - 1 day per month

H - 1 day per quarter

J - Annual

Q - For Effluent Toxicity Testing, see Provision IV.B.

(4) See Part IV.F.3

(5) For all effluent parameters, samples shall be first flush grab samples (FFGS) collected during the first 30 minutes of discharge.

B. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS**1. Representative Sampling**

Sample collection and measurement actions shall be representative of the volume and nature of the monitored discharge and shall be in accordance with the provisions of this permit. The effluent sampling point shall be at the nearest accessible location just prior to discharge and after final treatment, unless otherwise specified in the permit.

2. Measurement Frequency

Measurement frequency requirements found in Provision I.A. shall mean:

- a. Seven days per week shall mean daily.
- b. Five days per week shall mean any five days of discharge during a calendar weekly period of Sunday through Saturday.
- c. Three days per week shall mean any three days of discharge during a calendar week.
- d. Two days per week shall mean any two days of discharge during a calendar week.
- e. One day per week shall mean any day of discharge during a calendar week.
- f. Two days per month shall mean any two days of discharge during the month that are no less than seven days apart. However, if discharges occur only during one seven-day period in a month, then two days per month shall mean any two days of discharge during that seven day period.
- g. One day per month shall mean any day of discharge during the calendar month.
- h. Quarterly shall mean any day of discharge during each calendar quarter.
- i. The Permittee may increase the frequency of sampling, listed in Provisions I.B.2.a through I.B.2.h; however, all sampling results are to be reported to the Department.

3. Test Procedures

For the purpose of reporting and compliance, Permittees shall use one of the following procedures:

- a. For parameters with an EPA established Minimum Level (ML), report the measured value if the analytical result is at or above the ML and report "0" for values below the ML. Test procedures for the analysis of pollutants shall conform to 40 CFR Part 136 and guidelines published pursuant to Section 304(h) of the FWPCA, 33 U.S.C. Section 1314(h). If more than one method for analysis of a substance is approved for use, a method having a minimum level lower than the permit limit shall be used. If the minimum level of all methods is higher than the permit limit, the method having the lowest minimum level shall be used and a report of less than the minimum level shall be reported as zero and will constitute compliance, however should EPA approve a method with a lower minimum level during the term of this permit the Permittee shall use the newly approved method.
- b. For pollutants parameters without an established ML, an interim ML may be utilized. The interim ML shall be calculated as 3.18 times the Method Detection Level (MDL) calculated pursuant to 40 CFR Part 136, Appendix B.

Permittees may develop an effluent matrix-specific ML, where an effluent matrix prevents attainment of the established ML. However, a matrix specific ML shall be based upon proper laboratory method and technique. Matrix-specific MLs must be approved by the Department, and may be developed by the Permittee during permit issuance, reissuance, modification, or during compliance schedule.

In either case the measured value should be reported if the analytical result is at or above the ML and "0" reported for values below the ML.

- c. For parameters without an EPA established ML, interim ML, or matrix-specific ML, a report of less than the detection limit shall constitute compliance if the detection limit of all analytical methods is higher than the permit limit. For the purpose of calculating a monthly average, "0" shall be used for values reported less than the detection limit.

The Minimum Level utilized for procedures a and b above shall be reported on the Permittee's DMR. When an EPA approved test procedure for analysis of a pollutant does not exist, the Director shall approve the procedure to be used.

4. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the Permittee shall record the following information:

- a. The facility name and location, point source number, date, time and exact place of sampling;
- b. The name(s) of person(s) who obtained the samples or measurements;
- c. The dates and times the analyses were performed;
- d. The name(s) of the person(s) who performed the analyses;
- e. The analytical techniques or methods used, including source of method and method number; and
- f. The results of all required analyses.

5. Records Retention and Production

- a. The Permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the above reports or the application for this permit, for a period of at least three years from the date of the sample measurement, report or application. This period may be extended by request of the Director at any time. If litigation or other enforcement action, under the AWPCA and/or the FWPCA, is ongoing which involves any of the above records, the records shall be kept until the litigation is resolved. Upon the written request of the Director or his designee, the Permittee shall provide the Director with a copy of any record required to be retained by this paragraph. Copies of these records should not be submitted unless requested.
- b. All records required to be kept for a period of three years shall be kept at the permitted facility or an alternate location approved by the Department in writing and shall be available for inspection.

6. Reduction, Suspension or Termination of Monitoring and/or Reporting

- a. The Director may, with respect to any point source identified in Provision I.A. of this permit, authorize the Permittee to reduce, suspend or terminate the monitoring and/or reporting required by this permit upon the submission of a written request for such reduction, suspension or termination by the Permittee, supported by sufficient data which demonstrates to the satisfaction of the Director that the discharge from such point source will continuously meet the discharge limitations specified in Provision I.A. of this permit.
- b. It remains the responsibility of the Permittee to comply with the monitoring and reporting requirements of this permit until written authorization to reduce, suspend or terminate such monitoring and/or reporting is received by the Permittee from the Director.

7. Monitoring Equipment and Instrumentation

All equipment and instrumentation used to determine compliance with the requirements of this permit shall be installed, maintained, and calibrated in accordance with the manufacturer's instructions or, in the absence of manufacturer's instructions, in accordance with accepted practices. At a minimum, flow measurement devices shall be calibrated at least once every 12 months.

C. DISCHARGE REPORTING REQUIREMENTS

1. Reporting of Monitoring Requirements

- a. The Permittee shall conduct the required monitoring in accordance with the following schedule:
 - (1) **MONITORING REQUIRED MORE FREQUENTLY THAN MONTHLY AND MONTHLY** shall be conducted during the first full month following the effective date of coverage under this permit and every month thereafter.
 - (2) **QUARTERLY MONITORING** shall be conducted at least once during each calendar quarter. Calendar quarters are the periods of January through March, April through June, July through September, and October through December. The Permittee shall conduct the quarterly monitoring during the first complete calendar quarter following the effective date of this permit and is then required to monitor once during each quarter thereafter. Quarterly monitoring should be reported on the last DMR due for the quarter (i.e., March, June, September and December DMRs).
 - (3) **SEMIANNUAL MONITORING** shall be conducted at least once during the period of January through June and at least once during the period of July through December. The Permittee shall conduct the semiannual monitoring during the first complete calendar semiannual period following the effective date of

this permit and is then required to monitor once during each semiannual period thereafter. Semiannual monitoring may be done anytime during the semiannual period, unless restricted elsewhere in this permit, but it should be reported on the last DMR due for the month of the semiannual period (i.e., June and December DMRs).

- (4) **ANNUAL MONITORING** shall be conducted at least once during the period of January through December. The Permittee shall conduct the annual monitoring during the first complete calendar annual period following the effective date of this permit and is then required to monitor once during each annual period thereafter. Annual monitoring may be done anytime during the year, unless restricted elsewhere in this permit, but it should be reported on the December DMR.
- b. The Permittee shall submit discharge monitoring reports (DMRs) on the forms provided by the Department and in accordance with the following schedule:
 - (1) **REPORTS OF MORE FREQUENTLY THAN MONTHLY AND MONTHLY TESTING** shall be submitted on a monthly basis. The first report is due on the 28th day of the month following the month the permit becomes effective. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.
 - (2) **REPORTS OF QUARTERLY TESTING** shall be submitted on a quarterly basis. The first report is due on the 28th day of the month following the month the permit becomes effective. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.
 - (3) **REPORTS OF SEMIANNUAL TESTING** shall be submitted on a semiannual basis. The reports are due on the 28th day of JANUARY and the 28th day of JULY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.
 - (4) **REPORTS OF ANNUAL TESTING** shall be submitted on an annual basis. Unless specified elsewhere in the permit, the first report is due on the 28th day of JANUARY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.
- c. The DMR must be legible and bear an original signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this permit. If the Permittee, using approved analytical methods as specified in Provision I. B. 2. monitors any discharge from a point source for a limited substance identified in Provision I. A. of this permit more frequently than required by this permit, the results of such monitoring shall be included in the calculation and reporting of values on the DMR Form and the increased frequency shall be indicated on the DMR Form. In the event no discharge from a point source identified in Provision I. A. of this permit and described more fully in the Permittee's application occurs during a monitoring period, the Permittee shall report "No Discharge" for such period on the appropriate DMR Form.
- d. All reports and forms required to be submitted by this permit, the AWPCA and the Department's Rules and regulations, shall be signed by a "responsible official" of the Permittee as defined in ADEM Administrative Code Rule 335-6-6-.09 or a "duly authorized representative" of such official as defined in ADEM Administrative Code Rule 335-6-6-.09 and shall bear the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."
- e. The Permittee may certify in writing that a discharge will not occur for an extended period of time and after such certification shall not be required to submit monitoring reports. Written notification of a planned resumption of discharge shall be submitted at least 30 days prior to resumption of the discharge. If an unplanned resumption of discharge occurs, written notification shall be submitted within 7 days of the resumption. In any case, all discharges shall comply with all provisions of this permit.
- f. All reports and forms required to be submitted by this permit, the AWPCA and the Department's Rules, shall be addressed to:

**Alabama Department of Environmental Management
Municipal Section, Water Division
Post Office Box 301463
Montgomery, Alabama 36130-1463**

Certified and Registered Mail shall be addressed to:

**Alabama Department of Environmental Management
Municipal Section, Water Division
1400 Coliseum Boulevard
Montgomery, Alabama 36110-2059**

DMRs required to be submitted by this permit shall be addressed to:

**Alabama Department of Environmental Management
Environmental Data Section, Permits and Services Division
Post Office Box 301463
Montgomery, Alabama 36130-1463**

- g. If this permit is a re-issuance, then the permittee shall continue to submit DMRs in accordance with the requirements of their previous permit until such time as DMRs are due as discussed in Part I.C.1.b. above.

2. Noncompliance Notification

- a. The Permittee must notify the Department if, for any reason, the Permittee's discharge:

- (1) Does not comply with any daily minimum or maximum discharge limitation for an effluent characteristic specified in Provision I. A. of this permit which is denoted by an "(X)"
- (1) Potentially threatens human health or welfare,
- (2) Threatens fish or aquatic life
- (3) Causes an in-stream water quality criterion to be exceeded;
- (3) Does not comply with an applicable toxic pollutant effluent standard or prohibition established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a);
- (4) Contains a quantity of a hazardous substance that may be harmful to public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. Section 1321(b)(4);
- (5) Exceeds any discharge limitation for an effluent parameter listed in Part I.A as a result of an unanticipated bypass or upset; or
- (6) Is an unpermitted direct or indirect discharge of a pollutant to a water of the state (Note that unpermitted discharges properly reported to the Department under any other requirement are not required to be reported under this provision)

The Permittee shall orally report any of the above occurrences, describing the circumstances and potential effects, to the Department within 24-hours after the Permittee becomes aware of the occurrence of such discharge. In addition to the oral report, the Permittee shall submit a written report to the Director or Designee, as provided in Provision I.C.2.c, no later than five days after becoming aware of the occurrence of such discharge or occurrence.

- b. If for any reason, the Permittee's discharge does not comply with any limitation of this permit, then the Permittee must submit a written report to the Director or Designee, as provided in Provision I.C.2.c below. This report must be submitted with the next Discharge Monitoring Report required to be submitted by Provision I.C.1 of this permit after becoming aware of the occurrence of such noncompliance.
- c. Form 421 must be submitted to the Director or Designee in accordance with Provisions I.C.2a. or b. The completed form must document the following information:
- (1) A description of the discharge and cause of noncompliance;
 - (2) The period of noncompliance, including exact dates, times, and duration of the noncompliance. If not corrected by the due date of the written report, then the Permittee is to state the anticipated timeframe that is expected to transpire before the noncompliance is resolved; and
 - (3) A description of the steps taken by the Permittee and the steps planned to be taken by the Permittee to reduce or eliminate the noncompliant discharge, including all steps taken to prevent recurrence.
- d. Immediate notification

The permittee shall provide immediate notification to the Director, the public, the county health department, and any other affected entity such as public water systems, as soon as possible upon becoming aware of any notifiable sanitary sewer overflow.

- e. The Permittee shall keep an updated record of all known wastewater discharge points that are not authorized as permitted outfalls, including but not limited to SSOs. The Permittee shall submit annual Municipal Water Pollution Prevention Plan (MWPP) reports to the Department each year by May 31st for the prior calendar year period beginning January 1st and ending December 31st. The Annual MWPP Reports shall contain a list of all known wastewater discharge points that are not authorized as permitted outfalls and any discharges that occur prior to the headworks of the wastewater treatment plant covered by this permit. The MWPP shall also provide a list of any discharges reported in accordance with Provision I.C.2.a. The Permittee shall submit with its Annual MWPP Report the following information for each known unpermitted discharge that occurs:
 - (1) The cause of the discharge;
 - (2) Date, duration and volume of discharge (estimate if unknown);
 - (3) Description of the source (e.g., manhole, lift station);
 - (4) Location of the discharge, by street address or any other appropriate method;
 - (5) The ultimate destination of the flow (e.g., surface waterbody, municipal separate storm sewer to surface waterbody). Location should be shown on a USGS quad sheet or copy thereof; and
 - (6) Corrective actions or plans to eliminate future discharges.
- f. The Permittee shall report SSO and other illicit or anomalous discharge events on Form 415 in accordance with Part I.C.2.a. This form is available on the ADEM web page or upon request from the Permittee.

D. OTHER REPORTING AND NOTIFICATION REQUIREMENTS

1. Anticipated Noncompliance

The Permittee shall give the Director written advance notice of any planned changes or other circumstances regarding a facility which may result in noncompliance with permit requirements.

2. Termination of Discharge

The Permittee shall notify the Director, in writing, when all discharges from any point source(s) identified in Provision I. A. of this permit have permanently ceased. This notification shall serve as sufficient cause for instituting procedures for modification or termination of the permit.

3. Updating Information

- a. The Permittee shall inform the Director of any change in the Permittee's mailing address or telephone number or in the Permittee's designation of a facility contact or office having the authority and responsibility to prevent and abate violations of the AWPCA, the Department's Rules and the terms and conditions of this permit, in writing, no later than ten (10) days after such change. Upon request of the Director or his designee, the Permittee shall furnish the Director with an update of any information provided in the permit application.
- b. If the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information with a written explanation for the mistake and/or omission.

4. Duty to Provide Information

The Permittee shall furnish to the Director, within a reasonable time, any information which the Director or his designee may request to determine whether cause exists for modifying, revoking and re-issuing, suspending, or terminating this permit, in whole or in part, or to determine compliance with this permit.

E. SCHEDULE OF COMPLIANCE

1. Compliance with discharge limits

The Permittee shall achieve compliance with the discharge limitations specified in Provision I. A. in accordance with the following schedule:

COMPLIANCE SHALL BE ATTAINED ON THE EFFECTIVE DATE OF THIS PERMIT

2. Schedule

No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

PART II OTHER REQUIREMENTS, RESPONSIBILITIES, AND DUTIES

A. OPERATIONAL AND MANAGEMENT REQUIREMENTS

1. Facilities Operation and Maintenance

The Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities only when necessary to achieve compliance with the conditions of the permit.

2. Best Management Practices (BMP)

- a. Dilution water shall not be added to achieve compliance with discharge limitations except when the Director or his designee has granted prior written authorization for dilution to meet water quality requirements.
- b. The Permittee shall prepare, implement, and maintain a Spill Prevention, Control and Countermeasures (SPCC) Plan in accordance with 40 C.F.R. Section 112 if required thereby.
- c. The Permittee shall prepare, submit for approval and implement a BMP Plan for containment of any or all process liquids or solids, in a manner such that these materials do not present a significant potential for discharge, if so required by the Director or his designee. When submitted and approved, the BMP Plan shall become a part of this permit and all requirements of the BMP Plan shall become requirements of this permit.

3. Certified Operator

The Permittee shall not operate any wastewater treatment plant unless the competency of the operator to operate such plant has been duly certified by the Director pursuant to AWPCA, and meets the requirements specified in ADEM Administrative Code, Rule 335-10-1.

B. OTHER RESPONSIBILITIES

1. Duty to Mitigate Adverse Impacts

The Permittee shall promptly take all reasonable steps to mitigate and minimize or prevent any adverse impact on human health or the environment resulting from noncompliance with any discharge limitation specified in Provision I. A. of this permit, including such accelerated or additional monitoring of the discharge and/or the receiving waterbody as necessary to determine the nature and impact of the noncomplying discharge.

2. Right of Entry and Inspection

The Permittee shall allow the Director, or an authorized representative, upon the presentation of proper credentials and other documents as may be required by law to:

- (1) Enter upon the Permittee's premises where a regulated facility or activity or point source is located or conducted, or where records must be kept under the conditions of the permit;
- (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permits;
- (3) Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the permit; and
- (4) Sample or monitor, for the purposes of assuring permit compliance or as otherwise authorized by the AWPCA, any substances or parameters at any location.

C. BYPASS AND UPSET

1. Bypass

- a. Any bypass is prohibited except as provided in b. and c. below:
- b. A bypass is not prohibited if:
 - (1) It does not cause any discharge limitation specified in Provision I. A. of this permit to be exceeded;
 - (2) It enters the same receiving stream as the permitted outfall; and
 - (3) It is necessary for essential maintenance of a treatment or control facility or system to assure efficient operation of such facility or system.

- c. A bypass is not prohibited and need not meet the discharge limitations specified in Provision I. A. of this permit if:
 - (1) It is unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (2) There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime (this condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance); and
 - (3) The Permittee submits a written request for authorization to bypass to the Director at least ten (10) days prior to the anticipated bypass (if possible), the Permittee is granted such authorization, and the Permittee complies with any conditions imposed by the Director to minimize any adverse impact on human health or the environment resulting from the bypass.
 - d. The Permittee has the burden of establishing that each of the conditions of Provision II. C. 1. b. or c. have been met to qualify for an exception to the general prohibition against bypassing contained in a. and an exemption, where applicable, from the discharge limitations specified in Provision I. A. of this permit.
2. Upset
- a. A discharge which results from an upset need not meet the discharge limitations specified in Provision I. A. of this permit if:
 - (1) No later than 24-hours after becoming aware of the occurrence of the upset, the Permittee orally reports the occurrence and circumstances of the upset to the Director or his designee; and
 - (2) No later than five (5) days after becoming aware of the occurrence of the upset, the Permittee furnishes the Director with evidence, including properly signed, contemporaneous operating logs, or other relevant evidence, demonstrating that:
 - (i) An upset occurred;
 - (ii) The Permittee can identify the specific cause(s) of the upset;
 - (iii) The Permittee's facility was being properly operated at the time of the upset; and
 - (iv) The Permittee promptly took all reasonable steps to minimize any adverse impact on human health or the environment resulting from the upset.
 - b. The Permittee has the burden of establishing that each of the conditions of Provision II C. 2. a. of this permit have been met to qualify for an exemption from the discharge limitations specified in Provision I. A. of this permit.

D. DUTY TO COMPLY WITH PERMIT, RULES, AND STATUTES

- 1. Duty to Comply
 - a. The Permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the AWPCA and the FWPCA and is grounds for enforcement action, for permit termination, revocation and reissuance, suspension, modification, or denial of a permit renewal application.
 - b. The necessity to halt or reduce production or other activities in order to maintain compliance with the conditions of the permit shall not be a defense for a Permittee in an enforcement action.
 - c. The discharge of a pollutant from a source not specifically identified in the permit application for this permit and not specifically included in the description of an outfall in this permit is not authorized and shall constitute noncompliance with this permit.
 - d. The Permittee shall take all reasonable steps, including cessation of production or other activities, to minimize or prevent any violation of this permit or to minimize or prevent any adverse impact of any permit violation.
 - e. Nothing in this permit shall be construed to preclude or negate the Permittee's responsibility to apply for, obtain, or comply with other Federal, State, or Local Government permits, certifications, or licenses or to preclude from obtaining other federal, state, or local approvals, including those applicable to other ADEM programs and regulations.

2. Removed Substances

Solids, sludges, filter backwash, or any other pollutant or other waste removed in the course of treatment or control of wastewaters shall be disposed of in a manner that complies with all applicable Department Rules.

3. Loss or Failure of Treatment Facilities

Upon the loss or failure of any treatment facilities, including but not limited to the loss or failure of the primary source of power of the treatment facility, the Permittee shall, where necessary to maintain compliance with the discharge limitations specified in Provision I. A. of this permit, or any other terms or conditions of this permit, cease, reduce, or otherwise control production and/or all discharges until treatment is restored. If control of discharge during loss or failure of the primary source of power is to be accomplished by means of alternate power sources, standby generators, or retention of inadequately treated effluent, the Permittee must furnish to the Director within six months a certification that such control mechanisms have been installed.

4. Compliance With Statutes and Rules

- a. This permit has been issued under ADEM Administrative Code, Chapter 335-6-6. All provisions of this chapter, that are applicable to this permit, are hereby made a part of this permit. A copy of this chapter may be obtained for a small charge from the Office of General Counsel, Alabama Department of Environmental Management, 1400 Coliseum Boulevard Montgomery, Alabama 36110-2059.
- b. This permit does not authorize the noncompliance with or violation of any Laws of the State of Alabama or the United States of America or any regulations or rules implementing such laws. FWPCA, 33 U.S.C. Section 1319, and Code of Alabama 1975, Section 22-22-14.

E. PERMIT TRANSFER, MODIFICATION, SUSPENSION, REVOCATION, AND REISSUANCE

1. Duty to Reapply or Notify of Intent to Cease Discharge

- a. If the Permittee intends to continue to discharge beyond the expiration date of this permit, the Permittee shall file a complete permit application for reissuance of this permit at least 180 days prior to its expiration. If the Permittee does not intend to continue discharge beyond the expiration of this permit, the Permittee shall submit written notification of this intent which shall be signed by an individual meeting the signatory requirements for a permit application as set forth in ADEM Administrative Code Rule 335-6-6-.09.
- b. Failure of the Permittee to apply for reissuance at least 180 days prior to permit expiration will void the automatic continuation of the expiring permit provided by ADEM Administrative Code Rule 335-6-6-.06 and should the permit not be reissued for any reason any discharge after expiration of this permit will be an unpermitted discharge.

2. Change in Discharge

Prior to any facility expansion, process modification or any significant change in the method of operation of the Permittee's treatment works, the Permittee shall provide the Director with information concerning the planned expansion, modification or change. The Permittee shall apply for a permit modification at least 180 days prior to any facility expansion, process modification, any significant change in the method of operation of the Permittee's treatment works or other actions that could result in the discharge of additional pollutants or increase the quantity of a discharged pollutant or could result in an additional discharge point. This condition applies to pollutants that are or that are not subject to discharge limitations in this permit. No new or increased discharge may begin until the Director has authorized it by issuance of a permit modification or a reissued permit.

3. Transfer of Permit

This permit may not be transferred or the name of the Permittee changed without notice to the Director and subsequent modification or revocation and reissuance of the permit to identify the new Permittee and to incorporate any other changes as may be required under the FWPCA or AWPCA. In the case of a change in name, ownership or control of the Permittee's premises only, a request for permit modification in a format acceptable to the Director is required at least 30 days prior to the change. In the case of a change in name, ownership or control of the Permittee's premises accompanied by a change or proposed change in effluent characteristics, a complete permit application is required to be submitted to the Director at least 180 days prior to the change. Whenever the Director is notified of a change in name, ownership or control, he may decide not to modify the existing permit and require the submission of a new permit application.

4. Permit Modification and Revocation

- a. This permit may be modified or revoked and reissued, in whole or in part, during its term for cause, including but not limited to, the following:

- (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to revoke and reissue this permit instead of terminating the permit;
 - (2) If a request to transfer this permit has been received, the Director may decide to revoke and reissue or to modify the permit; or
 - (3) If modification or revocation and reissuance is requested by the Permittee and cause exists, the Director may grant the request.
- b. This permit may be modified during its term for cause, including but not limited to, the following:
- (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to modify this permit instead of terminating this permit;
 - (2) There are material and substantial alterations or additions to the facility or activity generating wastewater which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;
 - (3) The Director has received new information that was not available at the time of permit issuance and that would have justified the application of different permit conditions at the time of issuance;
 - (4) A new or revised requirement(s) of any applicable standard or limitation is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA;
 - (5) Errors in calculation of discharge limitations or typographical or clerical errors were made;
 - (6) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, when the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued;
 - (7) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, permits may be modified to change compliance schedules;
 - (8) To agree with a granted variance under 301(c), 301(g), 301(h), 301(k), or 316(a) of the FWPCA or for fundamentally different factors;
 - (9) To incorporate an applicable 307(a) FWPCA toxic effluent standard or prohibition;
 - (10) When required by the reopener conditions in this permit;
 - (11) When required under 40 CFR 403.8(e) (compliance schedule for development of pretreatment program);
 - (12) Upon failure of the state to notify, as required by Section 402(b)(3) of the FWPCA, another state whose waters may be affected by a discharge permitted by this permit;
 - (13) When required to correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions; or
 - (14) When requested by the Permittee and the Director determines that the modification has cause and will not result in a violation of federal or state law, regulations or rules.
5. Termination
- This permit may be terminated during its term for cause, including but not limited to, the following:
- a. Violation of any term or condition of this permit;
 - b. The Permittee's misrepresentation or failure to disclose fully all relevant facts in the permit application or during the permit issuance process or the Permittee's misrepresentation of any relevant facts at any time;
 - c. Materially false or inaccurate statements or information in the permit application or the permit;
 - d. A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge;
 - e. The Permittee's discharge threatens human life or welfare or the maintenance of water quality standards;
 - f. Permanent closure of the facility generating the wastewater permitted to be discharged by this permit or permanent cessation of wastewater discharge;
 - g. New or revised requirements of any applicable standard or limitation that is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA that the Director determines cannot be complied with by the Permittee; or

h. Any other cause allowed by the ADEM Administrative Code, Chapter 335-6-6.

6. Suspension

This permit may be suspended during its term for noncompliance until the Permittee has taken action(s) necessary to achieve compliance.

7. Stay

The filing of a request by the Permittee for modification, suspension or revocation of this permit, in whole or in part, does not stay any permit term or condition.

F. COMPLIANCE WITH TOXIC POLLUTANT STANDARD OR PROHIBITION

If any applicable effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a), for a toxic pollutant discharged by the Permittee, and such standard or prohibition is more stringent than any discharge limitation on the pollutant specified in Provision I. A. of this permit or controls a pollutant not limited in Provision I. A. of this permit, this permit shall be modified to conform to the toxic pollutant effluent standard or prohibition, and the Permittee shall be notified of such modification. If this permit has not been modified to conform to the toxic pollutant effluent standard or prohibition before the effective date of such standard or prohibition, the Permittee shall attain compliance with the requirements of the standard or prohibition within the time period required by the standard or prohibition and shall continue to comply with the standard or prohibition until this permit is modified or reissued.

G. NOTICE TO DIRECTOR OF INDUSTRIAL USERS

1. The Permittee shall not allow the introduction of wastewater, other than domestic wastewater, from a new direct discharger prior to approval and permitting, if applicable, of the discharge by the Department.
2. The Permittee shall not allow an existing indirect discharger to increase the quantity or change the character of its wastewater, other than domestic wastewater, prior to approval and permitting, if applicable, of the increased discharge by the Department.
3. The Permittee shall report to the Department any adverse impact caused or believed to be caused by an indirect discharger on the treatment process, quality of discharged water, or quality of sludge. Such report shall be submitted within seven days of the Permittee becoming aware of the adverse impacts.

H. PROHIBITIONS

The Permittee shall not allow, and shall take effective enforcement action to prevent and terminate, the introduction of any of the following into its treatment works by industrial users:

1. Pollutants which create a fire or explosion hazard in the treatment works;
2. Pollutants which will cause corrosive structural damage to the treatment works, or dischargers with a pH lower than 5.0 s.u., unless the works are specifically designed to accommodate such discharges;
3. Solid or viscous pollutants in amounts which will cause obstruction of flow in sewers, or other interference with the treatment works;
4. Pollutants, including oxygen demanding pollutants, released in a discharge of such volume or strength as to cause interference in the treatment works;
5. Heat in amounts which will inhibit biological activity in the treatment plant resulting in interference or in such quantities that the temperature of the treatment plant influent exceeds 40°C (104° F) unless the treatment plant is designed to accommodate such heat; and
6. Pollutants in amounts which exceed any applicable pretreatment standard under Section 307 of FWPCA or any approved revisions thereof.

PART III ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. CIVIL AND CRIMINAL LIABILITY

1. Tampering

Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained or performed under the permit shall, upon conviction, be subject to penalties as provided by the AWPCA.

2. False Statements

Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be subject to penalties as provided by the AWPCA.

3. Permit Enforcement

- a. Any NPDES permit issued or reissued by the Department is a permit for the purpose of the AWPCA and the FWPCA, and as such, any terms, conditions, or limitations of the permit are enforceable under state and federal law.
- b. Any person required to have a NPDES permit pursuant to ADEM Administrative Code Chapter 335-6-6 and who discharges pollutants without said permit, who violates the conditions of said permit, who discharges pollutants in a manner not authorized by the permit, or who violates applicable orders of the Department or any applicable rule or standard of the Department, is subject to any one or combination of the following enforcement actions under applicable state statutes:
 - (1) An administrative order requiring abatement, compliance, mitigation, cessation, clean-up, and/or penalties;
 - (2) An action for damages;
 - (3) An action for injunctive relief; or
 - (4) An action for penalties.
- c. If the Permittee is not in compliance with the conditions of an expiring or expired permit the Director may choose to do any or all of the following provided the Permittee has made a timely and complete application for reissuance of the permit:
 - (1) Initiate enforcement action based upon the permit which has been continued;
 - (2) Issue a notice of intent to deny the permit reissuance. If the permit is denied, the owner or operator would then be required to cease the activities authorized by the continued permit or be subject to enforcement action for operating without a permit;
 - (3) Reissue the new permit with appropriate conditions; or
 - (4) Take other actions authorized by these rules and AWPCA.

4. Relief from Liability

Except as provided in Provision II. C. 1. (Bypass) and Provision II. C. 2. (Upset), nothing in this permit shall be construed to relieve the Permittee of civil or criminal liability under the AWPCA or FWPCA for noncompliance with any term or condition of this permit.

B. OIL AND HAZARDOUS SUBSTANCE LIABILITY

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities or penalties to which the Permittee is or may be subject under Section 311 of the FWPCA, 33 U.S.C. Section 1321.

C. PROPERTY AND OTHER RIGHTS

This permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to persons or property or invasion of other private rights, or any infringement of federal, state, or local laws or regulations, nor does it authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any waters of the state or of the United States.

D. AVAILABILITY OF REPORTS

Except for data determined to be confidential under Code of Alabama 1975, Section 22-22-9(c), all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department. Effluent data shall not be considered confidential.

E. EXPIRATION OF PERMITS FOR NEW OR INCREASED DISCHARGES

1. If this permit was issued for a new discharger or new source, this permit shall expire eighteen months after the issuance date if construction of the facility has not begun during the eighteen-month period.
2. If this permit was issued or modified to allow the discharge of increased quantities of pollutants to accommodate the modification of an existing facility and if construction of this modification has not begun during the eighteen month period after issuance of this permit or permit modification, this permit shall be modified to reduce the quantities of pollutants allowed to be discharged to those levels that would have been allowed if the modification of the facility had not been planned.
3. Construction has begun when the owner or operator has:
 - a. Begun, or caused to begin as part of a continuous on-site construction program:
 - (1) Any placement, assembly, or installation of facilities or equipment; or
 - (2) Significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which are necessary for the placement, assembly, or installation of new source facilities or equipment; or
 - b. Entered into a binding contractual obligation for the purpose of placement, assembly, or installation of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under this paragraph.
4. Final plans and specifications for a waste treatment facility at a new source or new discharger, or a modification to an existing waste treatment facility must be submitted to and examined by the Department prior to initiating construction of such treatment facility by the Permittee.
5. Upon completion of construction of waste treatment facilities and prior to operation of such facilities, the Permittee shall submit to the Department a certification from a registered professional engineer, licensed to practice in the State of Alabama, that the treatment facilities have been built according to plans and specifications submitted to and examined by the Department.

F. COMPLIANCE WITH WATER QUALITY STANDARDS

1. On the basis of the Permittee's application, plans, or other available information, the Department has determined that compliance with the terms and conditions of this permit should assure compliance with the applicable water quality standards.
2. Compliance with permit terms and conditions notwithstanding, if the Permittee's discharge(s) from point sources identified in Provision I. A. of this permit cause or contribute to a condition in contravention of state water quality standards, the Department may require abatement action to be taken by the Permittee in emergency situations or modify the permit pursuant to the Department's Rules, or both.
3. If the Department determines, on the basis of a notice provided pursuant to this permit or any investigation, inspection or sampling, that a modification of this permit is necessary to assure maintenance of water quality standards or compliance with other provisions of the AWPCA or FWPCA, the Department may require such modification, and, in cases of emergency, the Director may prohibit the discharge until the permit has been modified.

G. GROUNDWATER

Unless specifically authorized by a permit issued by the Department, the discharge of pollutants to groundwater is prohibited. Should a threat of groundwater contamination occur, the Director may require groundwater monitoring to properly assess the degree of the problem, and the Director may require that the Permittee undertake measures to abate any such discharge and/or contamination.

H. DEFINITIONS

1. Average monthly discharge limitation – means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month (zero discharge days shall not be included in the number of "daily

discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).

2. Average weekly discharge limitation - means the highest allowable average of "daily discharges" over a calendar week, calculated as the sum of all "daily discharges" measured during a calendar week divided by the number of "daily discharges" measured during that week (zero discharge days shall not be included in the number of "daily discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).
3. Arithmetic Mean – means the summation of the individual values of any set of values divided by the number of individual values.
4. AWPCA – means the Alabama Water Pollution Control Act.
5. BOD – means the five-day measure of the pollutant parameter biochemical oxygen demand.
6. Bypass – means the intentional diversion of waste streams from any portion of a treatment facility.
7. CBOD – means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.
8. Daily discharge – means the discharge of a pollutant measured during any consecutive 24-hour period in accordance with the sample type and analytical methodology specified by the discharge permit.
9. Daily maximum – means the highest value of any individual sample result obtained during a day.
10. Daily minimum – means the lowest value of any individual sample result obtained during a day.
11. Day – means any consecutive 24-hour period.
12. Department – means the Alabama Department of Environmental Management.
13. Director – means the Director of the Department.
14. Discharge – means "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other waste into waters of the state". Code of Alabama 1975, Section 22-22-1(b)(9).
15. Discharge Monitoring Report (DMR) – means the form approved by the Director to accomplish reporting requirements of an NPDES permit.
16. DO – means dissolved oxygen.
17. 8HC – means 8-hour composite sample, including any of the following:
 - a. The mixing of at least 5 equal volume samples collected at constant time intervals of not more than 2 hours over a period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
 - b. A sample continuously collected at a constant rate over period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
18. EPA – means the United States Environmental Protection Agency.
19. FC – means the pollutant parameter fecal coliform.
20. Flow – means the total volume of discharge in a 24-hour period.
21. FWPCA – means the Federal Water Pollution Control Act.
22. Geometric Mean – means the Nth root of the product of the individual values of any set of values where N is equal to the number of individual values. The geometric mean is equivalent to the antilog of the arithmetic mean of the logarithms of the individual values. For purposes of calculating the geometric mean, values of zero (0) shall be considered one (1).
23. Grab Sample – means a single influent or effluent portion which is not a composite sample. The sample(s) shall be collected at the period(s) most representative of the discharge.
24. Indirect Discharger – means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.
25. Industrial User – means those industries identified in the Standard Industrial Classification manual, Bureau of the Budget 1967, as amended and supplemented, under the category "Division D – Manufacturing" and such other classes of significant waste producers as, by regulation, the Director deems appropriate.

26. MGD – means million gallons per day.
27. Monthly Average – means the arithmetic mean of all the composite or grab samples taken for the daily discharges collected in one month period. The monthly average for flow is the arithmetic mean of all flow measurements taken in a one month period.
28. New Discharger – means a person, owning or operating any building, structure, facility or installation:
 - a. From which there is or may be a discharge of pollutants;
 - b. From which the discharge of pollutants did not commence prior to August 13, 1979, and which is not a new source; and
 - c. Which has never received a final effective NPDES permit for dischargers at that site.
29. NH₃-N – means the pollutant parameter ammonia, measured as nitrogen.
30. Notifiable sanitary sewer overflow – means an overflow, spill, release or diversion of wastewater from a sanitary sewer system that:
 - a. Reaches a surface water of the State; or
 - b. May imminently and substantially endanger human health based on potential for public exposure including but not limited to close proximity to public or private water supply wells or in areas where human contact would be likely to occur.
31. Permit application – means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.
32. Point source – means "any discernible, confined and discrete conveyance, including but not limited to any pipe, channel, ditch, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, . . . from which pollutants are or may be discharged." Section 502(14) of the FWPCA, 33 U.S.C. Section 1362(14).
33. Pollutant – includes for purposes of this permit, but is not limited to, those pollutants specified in Code of Alabama 1975, Section 22-22-1(b)(3) and those effluent characteristics specified in Provision I. A. of this permit.
34. Privately Owned Treatment Works – means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a "POTW".
35. Publicly Owned Treatment Works – means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.
36. Receiving Stream – means the "waters" receiving a "discharge" from a "point source".
37. Severe property damage – means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
38. Significant Source – means a source which discharges 0.025 MGD or more to a POTW or greater than five percent of the treatment work's capacity, or a source which is a primary industry as defined by the U.S. EPA or which discharges a priority or toxic pollutant.
39. TKN – means the pollutant parameter Total Kjeldahl Nitrogen.
40. TON – means the pollutant parameter Total Organic Nitrogen.
41. TRC – means Total Residual Chlorine.
42. TSS – means the pollutant parameter Total Suspended Solids.
43. 24HC – means 24-hour composite sample, including any of the following:
 - a. The mixing of at least 12 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;
 - b. A sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected; or

- c. A sample collected over a consecutive 24-hour period using an automatic composite sampler composited proportional to flow.
- 44. Upset – means an exceptional incident in which there is an unintentional and temporary noncompliance with technology-based permit discharge limitations because of factors beyond the reasonable control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
- 45. Waters – means "[a]ll waters of any river, stream, watercourse, pond, lake, coastal, ground, or surface water, wholly or partially within the state, natural or artificial. This does not include waters which are entirely confined and retained completely upon the property of a single individual, partnership, or corporation unless such waters are used in interstate commerce." Code of Alabama 1975, Section 22-22-1(b)(2). Waters "include all navigable waters" as defined in Section 502(7) of the FWPCA, 22 U.S.C. Section 1362(7), which are within the State of Alabama.
- 46. Week – means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.
- 47. Weekly (7-day and calendar week) Average – is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week is defined as beginning on Sunday and ending on Saturday. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for the calendar week shall be included in the data for the month that contains the Saturday.

I. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

PART IV SPECIFIC REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. SLUDGE MANAGEMENT PRACTICES

1. Applicability
 - a. Provisions of Provision IV.A. apply to a sewage sludge generated or treated in treatment works that is applied to agricultural and non-agricultural land, or that is otherwise distributed, marketed, incinerated, or disposed in landfills or surface disposal sites.
 - b. Provisions of Provision IV.A. do not apply to:
 - (1) Sewage sludge generated or treated in a privately owned treatment works operated in conjunction with industrial manufacturing and processing facilities and which receive no domestic wastewater; and
 - (2) Sewage sludge that is stored in surface impoundments located at the treatment works prior to ultimate disposal.
2. Submitting Information
 - a. If applicable, the Permittee must submit annually with its Municipal Water Pollution Prevention (MWPP) report the following:
 - (1) Type of sludge stabilization/digestion method;
 - (2) Daily or annual sludge production (dry weight basis); and
 - (3) Ultimate sludge disposal practice(s).
 - b. The Permittee shall provide sludge inventory data to the Director as requested. These data may include, but are not limited to, sludge quantity and quality reported in Provision IV.A.2.a as well as other specific analyses required to comply with State and Federal laws regarding solid and hazardous waste disposal.
 - c. The Permittee shall give prior notice to the Director of at least 30 days of any change planned in the Permittee's sludge disposal practices.
3. Reopener or Modification
 - a. Upon review of information provided by the Permittee as required by Provision IV.A.2. or, based on the results of an on-site inspection, the permit shall be subject to modification to incorporate appropriate requirements.
 - b. If an applicable "acceptable management practice" or if a numerical limitation for a pollutant in sewage sludge promulgated under Section 405 of FWPCA is more stringent than the sludge pollutant limit or acceptable management practice in this permit, this permit shall be modified or revoked or reissued to conform to requirements promulgated under Section 405. The Permittee shall comply with the limitations no later than the compliance deadline specified in applicable regulations as required by Section 405 of FWPCA.

B. EFFLUENT TOXICITY LIMITATIONS AND BIOMONITORING REQUIREMENTS FOR CHRONIC TOXICITY

1. Chronic Toxicity Test
 - a. The permittee shall perform short-term chronic toxicity tests on the wastewater at Outfall 0011.
 - b. The samples shall be diluted using appropriate control water to the Instream Waste Concentration (IWC) which is **90 percent** effluent. The IWC is the actual concentration of effluent, after mixing, in the receiving stream during a 7-day, 10-year low flow period.
 - c. Any test result that shows a statistically significant reduction in survival, growth, or reproduction between the control and test samples at the 95% confidence level indicates chronic toxicity and shall constitute noncompliance with this permit.
2. General Test Requirements
 - a. A minimum of three (3) 24-hour composite samples shall be obtained for use in the above biomonitoring tests. Samples shall be collected every other day so that the laboratory receives water samples on the first, third, and fifth day of the seven-day test period. The holding time for each composite sample shall not exceed 36 hours. The control water shall be a water prepared in the laboratory in accordance with the EPA procedure described in EPA 821-R-02-013 (most current edition) or another control water selected by the Permittee and approved by the Department.

- b. Test results shall be deemed unacceptable and the Permittee shall rerun the tests as soon as practical within the monitoring period for the following:
 - (1) For testing with *P. promelas*, effluent toxicity tests with control survival of less than 80% or if dry weight per surviving control organism is less than 0.25 mg;
 - (2) For testing with *C. dubia*, if the number of young per surviving control organism is less than 15 or if less than 60% of surviving control females produce three broods; or
 - (3) If the other requirements of the EPA Test Procedure are not met.
 - c. In the event of an invalid test, upon subsequent completion of a valid test, the results of all tests, valid and invalid, are to be reported to the Department along with an explanation of the tests performed and the test results.
 - d. Toxicity tests shall be conducted for the duration of this permit in the month of **August**. Should results from the Annual Toxicity test indicate that Outfall 001-1 exhibits chronic toxicity, then the Permittee must conduct the follow-up testing described in Part IV.B.4.a. In addition, the Permittee may then also be required to conduct toxicity testing in the months of FEBRUARY, MAY, AUGUST, and NOVEMBER.
3. Reporting Requirements
 - a. The Permittee shall notify the Department in writing within 48 hours after toxicity has been demonstrated by the scheduled test(s).
 - b. Biomonitoring test results obtained during each monitoring period shall be summarized and reported using the appropriate Discharge Monitoring Report (DMR) form approved by the Department. In accordance with Section 2 of this part, an effluent toxicity report containing the information in Section 2s and 6 shall be included with the DMR. Two copies of the test results must be submitted to the Department no later than 28 days after the month that tests were performed.
4. Additional Testing Requirements
 - a. If chronic toxicity is indicated (i.e., noncompliance with permit limit), then the Permittee must perform two additional valid chronic toxicity tests in accordance with these procedures to determine the extent and duration of the toxic condition. The toxicity tests shall run consecutively beginning on the first calendar week following the date that the Permittee became aware of the permit noncompliance. The results of these follow-up tests shall be submitted to the Department no later than 28 days following the month the tests were performed.
 - b. After evaluation of the results of the follow-up tests, the Department will determine if additional action is appropriate and may require additional testing and/or toxicity reduction measures. The permittee may be required to perform a Toxicity Identification Evaluation (TIE) and/or a Toxicity Reduction Evaluation (TRE). The TIE/TRE shall be performed in accordance with the most recent protocols and guidance outlined by EPA (e.g., EPA/600/2-88/062, EPA/600/R-92/080, EPA/600/R-91-003, EPA/600/R-92/081, EPA/833/B-99/022, and/or EPA/600/6-91/005F)
5. Test Methods

The tests shall be performed in accordance with the latest edition of the "EPA Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms." The Larval Survival and Growth Test, Method 1000.0, shall be used for the fathead minnow (*Pimephales promelas*) test and the Survival and Reproduction Test, Method 1002.0, shall be used for the cladoceran (*Ceriodaphnia dubia*) test.
6. Effluent Toxicity Testing Reports

The following information shall be submitted with each DMR unless otherwise directed by the Department. The Department may at any times suspend or reinstate this requirement or may decrease or increase the frequency of submittals.

 - a. Introduction
 - (1) Facility name, location and county
 - (2) Permit number
 - (3) Toxicity testing requirements of permit
 - (4) Name of receiving water body
 - (5) Contract laboratory information (if tests are performed under contract)
 - (a) Name of firm
 - (b) Telephone number

- (c) Address
 - (6) Objective of test
- b. Plant Operations
 - (1) Discharge Operating schedule (if other than continuous)
 - (2) Volume of discharge during sample collection to include Mean daily discharge on sample collection dates (MGD, CFS, GPM)
 - (3) Design flow of treatment facility at time of sampling
- c. Source of Effluent and Dilution Water
 - (1) Effluent samples
 - (a) Sampling point
 - (b) Sample collection dates and times (to include composite sample start and finish times)
 - (c) Sample collection method
 - (d) Physical and chemical data of undiluted effluent samples (water temperature, pH, alkalinity, hardness, specific conductance, total residual chlorine (if applicable), etc.)
 - (e) Lapsed time from sample collection to delivery
 - (f) Lapsed time from sample collection to test initiation
 - (g) Sample temperature when received at the laboratory
 - (2) Dilution Water
 - (a) Source
 - (b) Collection/preparation date(s) and time(s)
 - (c) Pretreatment (if applicable)
 - (d) Physical and chemical characteristics (water temperature, pH, alkalinity, hardness, specific conductance, etc.)
- d. Test Conditions
 - (1) Toxicity test method utilized
 - (2) End point(s) of test
 - (3) Deviations from referenced method, if any, and reason(s)
 - (4) Date and time test started
 - (5) Date and time test terminated
 - (6) Type and volume of test chambers
 - (7) Volume of solution per chamber
 - (8) Number of organisms per test chamber
 - (9) Number of replicate test chambers per treatment
 - (10) Test temperature, pH, and dissolved oxygen as recommended by the method (to include ranges)
 - (11) Specify if aeration was needed
 - (12) Feeding frequency, amount, and type of food
 - (13) Specify if (and how) pH control measures were implemented
 - (14) Light intensity (mean)
- e. Test Organisms
 - (1) Scientific name
 - (2) Life stage and age
 - (3) Source
 - (4) Disease(s) treatment (if applicable)
- f. Quality Assurance
 - (1) Reference toxicant utilized and source
 - (2) Date and time of most recent chronic reference toxicant test(s), raw data, and current control chart(s). (The most recent chronic reference toxicant test shall be conducted within 30 days of the routine.)
 - (3) Dilution water utilized in reference toxicant test
 - (4) Results of reference toxicant test(s) (NOEC, I25, etc.); report concentration-response relationship and evaluate test sensitivity
 - (5) Physical and chemical methods utilized
- g. Results

- (1) Provide raw toxicity data in tabular form, including daily records of affected organisms in each concentration (including controls) and replicate
- (2) Provide table of endpoints: NOECs, IC25s, PASS/FAIL, etc. (as required in the applicable NPDES permit)
- (3) Indicate statistical methods used to calculate endpoints
- (4) Provide all physical and chemical data required by method
- (5) Results of test(s) (NOEC, I25, PASS/FAIL, etc.), report concentration-response relationship (definitive test only), report percent minimum significant difference (PMSD) calculated for sublethal endpoints determined by hypothesis testing.

h. Conclusions and Recommendations

- (1) Relationship between test endpoints and permit limits
- (2) Actions to be taken

1/ Adapted from "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms", Fourth Edition, October 2002 (EPA 821-R-02-013), Section 10, Report Preparation.

C. TOTAL RESIDUAL CHLORINE (TRC) REQUIREMENTS

1. Testing for TRC shall be conducted according to either the amperometric titration method or the DPD colorimetric method as specified in Section 408(C) or (E), Standards Methods for the Examination of Water and Wastewater, 18th edition. If chlorine is not detected prior to actual discharge to the receiving stream using one of these methods, the Permittee shall report on the DMR form the analytical results for TRC as being measured at less than the detection level for the test method selected. The Permittee shall then be considered to be in compliance with the daily maximum concentration limit for TRC.
2. This permit contains a maximum allowable TRC level in the effluent. The Permittee is responsible for determining the minimum TRC level needed in the chlorine contact chamber to comply with fecal coliform limits. The effluent shall be dechlorinated, if necessary, to meet the maximum allowable effluent TRC level.
3. The sample collection point for effluent TRC shall be at a point downstream of the chlorine contact chamber (downstream of dechlorination if applicable). The exact location is to be approved by the Director.

D. PLANT CLASSIFICATION

The Permittee shall report to the Director within 30 days of the effective date of this permit, the name, address, and operator number of the certified wastewater operator in responsible charge of the facility. Unless specified elsewhere in this permit, this facility shall be classified in accordance with ADEM Admin. Code R. 335-10-1-.03.

E. POLLUTANT SCANS

The Permittee shall sample and analyze for the pollutants listed in 40 CFR 122 Appendix J Table 2. The Permittee shall provide data from a minimum of three samples collected within the four and one half years prior to submitting a permit application. Samples must be representative of the seasonal variation in the discharge from each outfall.

F. STORM WATER REQUIREMENTS

1. Prohibitions
 - a. The Permittee shall not allow the discharge of non-storm water into permitted storm water outfall(s) unless said discharge is already subject to an NPDES permit.
 - b. Pollutants removed in the course of treatment or control shall be disposed in a manner that complies with all applicable Department rules and regulations.
2. Operational and Management Practices

The permittee shall prepare, submit for approval, and implement a Storm Water Pollution Prevention (SWPP) Plan within one year of the effective date of this permit.

 - a. In the SWPP Plan, the Permittee shall:
 - (1) Assess the treatment plant site by developing and presenting site drainage maps, materials inventory, and best management operational practices. The plan shall also include a description of all spill or leak sources;
 - (2) Describe mechanisms and procedures to prevent the contact of sewage sludge, screenings, raw or partially treated wastewater, or any other waste product or pollutant with storm water discharged from the facility;
 - (3) Provide for daily inspection on workdays of any structures that function to prevent storm water pollution or that remove pollutants from storm water;

- (4) Provide for daily inspection of the facility in general to ensure that the SWPP Plan is continually implemented and effective;
 - (5) Include a Best Management Practices (BMP) Plan that, as a minimum, addresses housekeeping, preventative maintenance, spill prevention and response, and non-storm water discharges;
 - (6) Describe mechanisms and procedures to provide sediment control sufficient to prevent or control storm water pollution storm water by particles resulting from soil or sediment migration from the site due to significant clearing, grading, or excavation activities;
 - (7) Designate by position or name the person or persons responsible for the day to day implementation of the SWPP Plan; and
 - (8) Bear the signature of an individual meeting signatory requirements as defined in ADEM Administrative Code, Rule 335-6-6-.09.
 - b. The Director or his designee may notify the permittee at any time that the SWPP Plan is deficient and will require correction of the deficiency. The permittee shall correct any SWPP Plan deficiency identified by the Director or his designee within 30 days of receipt of notification and shall certify to the Department that the correction has been made and implemented.
 - c. Administrative Procedures
 - (1) A copy of the SWPP Plan shall be maintained at the facility and shall be available for inspection by the Department.
 - (2) A log of daily inspections required by Provision IV.F.2.a.(3.) of the permit shall be maintained at the facility and shall be made available for inspection by the Department upon request. The log shall contain records of all inspections performed and each daily entry shall be signed by the person performing the inspection.
 - (3) The Permittee shall provide training for any personnel required to implement the SWPP Plan and shall retain documentation of such training at the facility. Training records for all personnel shall be available for inspection by the Department. Training shall be performed prior to the date implementation is required.
3. Monitoring Requirements
 - a. Storm water discharged through each storm water outfall shall be sampled once per year, using first flush grab samples (FFGS) collected during the first 30 minutes of discharge.
 - b. The total volume of storm water discharged for the event must be monitored, including the date and duration (in hours) and rainfall (in inches) for the storm event(s) sampled. The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event must be a minimum of 72 hours. This information must be recorded as part of the sampling procedure and records retained in accordance with Provision I.B.5. of this permit. The volume may be measured using flow measurement devices or may be estimated using any method approved in writing by the Department.

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WATER DIVISION – INDUSTRIAL AND MUNICIPAL SECTIONS
NONCOMPLIANCE NOTIFICATION FORM

PERMITTEE NAME: _____ PERMIT NO: _____

FACILITY LOCATION: _____

DMR REPORTING PERIOD: _____

1. DESCRIPTION OF DISCHARGE: (Include outfall number (s))

2. DESCRIPTION OF NON-COMPLIANCE: (Attach additional pages if necessary):

| LIST EFFLUENT VIOLATIONS (If applicable) | | | |
|--|-------------------------------|------------------------------------|---------------------------------|
| Outfall Number (s) | NONCOMPLIANCE PARAMETER(S) | Result Reported (Include units) | Permit Limit (Include units) |
| | | | |
| | | | |
| | | | |
| | | | |

| LIST MONITORING / REPORTING VIOLATIONS (If applicable) | | |
|--|-------------------------------|---|
| Outfall Number (s) | NONCOMPLIANCE PARAMETER(S) | Monitoring / Reporting Violation (Provide description) |
| | | |
| | | |
| | | |
| | | |

3. CAUSE OF NON-COMPLIANCE (Attach additional pages if necessary):

4. PERIOD OF NONCOMPLIANCE: (Include exact date(s) and time(s) or, if not corrected, the anticipated time the noncompliance is expected to continue):

5. DESCRIPTION OF STEPS TAKEN AND/OR BEING TAKEN TO REDUCE OR ELIMINATE THE NONCOMPLYING DISCHARGE AND TO PREVENT ITS RECURRENCE (attach additional pages if necessary):

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

NAME AND TITLE OF RESPONSIBLE OFFICIAL (type or print) _____

SIGNATURE OF RESPONSIBLE OFFICIAL / DATE SIGNED

NPDES PERMIT RATIONALE

NPDES Permit No: AL0026913 Date: May 30, 2008
Revised: September 29, 2008

Permit Applicant: Jefferson County Commission
Environmental Services Department
Suite A-300, 716 Richard Arrington Jr. Blvd. N.
Birmingham, Alabama 35203

Location: Five Mile Creek WWTP
3410 Happy Hollow Lane
Fultondale, Alabama 35068

Draft Permit is: Initial Issuance:
Reissuance due to expiration: X
Modification of existing permit:
Revocation and Reissuance:

Basis for Limitations: Water Quality Model: CBOD5, NH3-N, TKN, DO
Reissuance with no modification: TSS, TSS % Removal
Instream calculation at 7Q10: 90%
Toxicity based: TRC
Secondary Treatment Levels: TSS, TSS % Removal
Other (described below): pH, FC, TP, NO2+NO3-N, Total
Recoverable Mercury

Design Flow in Million Gallons per Day: 30 MGD

Description of Discharge: Outfall 001-1; Stormwater Outfalls 002S, 003S, and 006S;
Effluent and stormwater discharges are to Five Mile Creek,
which is classified as Fish & Wildlife.

Discussion: This is a permit reissuance due to expiration. The Permittee is in the process of
expanding the facility from 20 MGD to 30 MGD. This permit re-issuance reflects a
design capacity of 30 MGD.

This permit imposes seasonal limits for several parameters. Limits for Dissolved Oxygen (DO), Five Day Carbonaceous Biochemical Oxygen Demand (CBOD5), Total Ammonia-Nitrogen (NH3-N), and Total Kjeldahl Nitrogen (TKN) were developed based on a Waste Load Allocation (WLA) model completed by ADEM's Water Quality Branch on February 4, 2008. At the request of the Permittee, the Water Quality Branch adjusted the summer limits on August 22, 2008 and the winter limits on September 18, 2008 by decreasing the CBOD5 limit to allow for slightly higher limits for NH3-N and TKN. (The adjustment does not allow for any increase in oxygen demand for the facility.) The summer (May through November) limits are: DO = 6.0 mg/l, CBOD5 = 6.0 mg/l, NH3-N = 2.0 mg/l, and TKN = 4.0 mg/l. The winter (December through April) limits are: DO = 6.0 mg/l, CBOD5 = 7.0 mg/l, NH3-N = 2.5 mg/l, and TKN = 5.0 mg/l.

The pH limits of 6.0 to 8.5 s.u. and the FC limits of 200 col/100mL (June through September) and 1000 col/100mL (October through May) were developed to be supportive of the water-use classification of the receiving stream. The maximum Total Residual Chlorine limit of 0.01 mg/L is based on the current Toxicity Rationale, which considers the available dilution in the receiving stream.

The TSS and TSS % removal limits of 30.0 mg/L and 85%, respectively, are based on the requirements of 40 CFR part 133.102 regarding Secondary Treatment and remain unchanged from the previous permit. The CBOD5 % removal limit has been removed because the imposed seasonal CBOD5 limits are significantly more stringent than conventional secondary limits.

In addition to Total Ammonia Nitrogen (NH₃-N) and Total Kjeldahl Nitrogen (TKN), the Permittee is required to monitor and report effluent test results for Total Phosphorus (TP) and Nitrite plus Nitrate-Nitrogen (NO₂+NO₃-N). Monitoring for these nutrient-related parameters is imposed so that sufficient information will be available regarding the nutrient contribution from this point source, should it be necessary at some later time to impose nutrient limits on this discharge.

Chronic toxicity testing is imposed with two species (Ceriodaphnia and Pimephales). Toxicity testing is required because this is a major facility (>1 MGD) discharging to a water of the state with a Fish and Wildlife water-use classification. Toxicity testing is imposed for both survival and life-cycle impairment (i.e., growth and reproduction). Chronic toxicity testing is required on an annual basis at the calculated IWC of 90 percent.

The Permittee treats a mixture of municipal and industrial wastewater. The Permittee asserts that there are six significant industrial dischargers (i.e., six applicable SID permits) to the Five Mile Creek WWTP. The industrial dischargers consist of a margarine and butter manufacturer and several metal finishing operations. The Department's Industrial Section has evaluated the pollutant sources from the industrial facilities presently permitted to discharge to this Publicly Owned Treatment Works (POTW). The pollutants in this waste stream were reviewed to determine the amount of each pollutant that would be treated by the POTW and the amount that would 'pass-through' the POTW. Based upon these Pass-Through Calculations, pretreatment limits are imposed on each industry, if warranted. Based on the Industrial Section's Pass-Through Calculations developed for the SID permits, the treatment capacity of the POTW is not expected to be exceeded for any industrial-related pollutant parameter.

However, since this facility is classified as a Major Municipal Wastewater plant, the Department completed a reasonable potential analysis (RPA) of the discharge based on laboratory data provided in the Permittee's application. The RPA indicates whether any pollutants in treated effluent have the potential to contribute to any excursion of Alabama's in-stream water quality standards. Initially, the RPA indicated that there was a reasonable potential for the discharge to cause an exceedance of the established water quality criterion for zinc. However, additional hardness data for Five Mile Creek has been obtained and based on the additional data, there is no reasonable potential for the plant's discharge to exceed the water quality standard for zinc. As a result, there will be no limits for Total Recoverable Zinc in the permit.

Based on the analytical data submitted by the Permittee, it appears that reasonable potential may exist to cause an in-stream water quality criteria exceedance for mercury. However, the submitted analytical data was not conclusive because the Permittee did not employ a sufficient method reporting limit to allow the Department to definitively complete the RPA. As a result, the Department is imposing quarterly monitoring for total recoverable mercury, requiring that the Permittee conduct low-level analytical testing.

The Department will review the analytical data for mercury during the term of the permit to evaluate the necessity for imposing analytical limits at a later date.

The frequency of monitoring for most parameters, including nutrients, is five days per week. TSS % removal is to be reported monthly. Mercury is to be monitored quarterly. Flow is to be monitored continuously, seven days per week.

Storm water monitoring for storm water Outfalls 002S, 003S, and 006S is required on an annual basis. As per the Permittee's application, all runoff previously received by Outfalls 004S and 005S is now routed to Outfall 006S. Therefore, these storm water outfalls have been removed from the reissued permit.

Five Mile Creek is a Tier I stream and is not listed on the most recent 303(d) list. The Antidegradation Rule, ADEM Administrative Code R.335-6-10-.04, does not apply.

Prepared by: Kimberly Minton

| Q _d *C _d + Q _s *C _s = Q _r *C _r | | | | | Partition Coefficient (Stream / Lake) | Conversion Factor (CF) Acute | Conversion Factor (CF) Chronic | µg ONLY | |
|--|--------------------------------|------------------|--------|------------------------------|---------------------------------------|------------------------------|--------------------------------|---|---|
| ID | Pollutant | Carcinogen "yes" | Type | Background (C _s) | | | | Enter Max Daily Discharge as reported by Applicant (C _{dmax}) | Enter Avg Daily Discharge as reported by Applicant (C _{davg}) |
| 1 | Antimony | | Metals | 0 | - | | | 0 | 0 |
| 2 | Arsenic*,** | YES | Metals | 0 | 0.574 | | | 0 | 0 |
| 3 | Beryllium | | Metals | 0 | - | | | 0 | 0 |
| 4 | Cadmium** | | Metals | 0 | 0.235 | 0.933 | 0.838 | 0 | 0 |
| 5 | Chromium / Chromium III** | | Metals | 0 | 0.210 | 0.316 | 0.860 | 0 | 0 |
| 6 | Copper** | | Metals | 0 | 0.388 | 0.960 | 0.960 | 0 | 0 |
| 7 | Lead** | | Metals | 0 | 0.467 | 0.753 | 0.753 | 0 | 0 |
| 8 | Mercury** | | Metals | 0 | | | | 0 | 0 |
| 9 | Nickel** | | Metals | 0 | 0.505 | 0.998 | 0.997 | 0 | 0 |
| 10 | Selenium | | Metals | 0 | | | | 0 | 0 |
| 11 | Silver | | Metals | 0 | | 0.850 | | 0 | 0 |
| 12 | Thallium | | Metals | 0 | - | | | 0 | 0 |
| 13 | Zinc** | | Metals | 0 | 0.330 | 0.970 | 0.986 | 79 | 74 |
| 14 | Cyanide | | Metals | 0 | | | | 0 | 0 |
| 15 | Total Phenolic Compounds | | Metals | 0 | - | | | 0 | 0 |
| 16 | Hardness (As CaCO3) | | Metals | 0 | - | | | 150 | 150 |
| 17 | Acrolein | | VOC | 0 | - | | | 0 | 0 |
| 18 | Acrylonitrile* | YES | VOC | 0 | - | | | 0 | 0 |
| 19 | Benzene* | YES | VOC | 0 | - | | | 0 | 0 |
| 20 | Bromoform* | YES | VOC | 0 | - | | | 0 | 0 |
| 21 | Carbon Tetrachloride* | YES | VOC | 0 | - | | | 0 | 0 |
| 22 | Chlorobenzene | | VOC | 0 | - | | | 0 | 0 |
| 23 | Chlorodibromo-Methane* | YES | VOC | 0 | - | | | 0 | 0 |
| 24 | Chloroethane | | VOC | 0 | - | | | 0 | 0 |
| 25 | 2-Chloro-Ethylvinyl Ether | | VOC | 0 | - | | | 0 | 0 |
| 26 | ChloroForm* | YES | VOC | 0 | - | | | 6.14 | 5.81 |
| 27 | Dichlorobromo-Methane* | YES | VOC | 0 | - | | | 0 | 0 |
| 28 | 1, 1-Dichloroethane | | VOC | 0 | - | | | 0 | 0 |
| 29 | 1, 2-Dichloroethane* | YES | VOC | 0 | - | | | 0 | 0 |
| 30 | Trans-1, 2-Dichloro-Ethylene | | VOC | 0 | - | | | 0 | 0 |
| 31 | 1, 1-Dichloroethylene | | VOC | 0 | - | | | 0 | 0 |
| 32 | 1, 2-Dichloropropane* | YES | VOC | 0 | - | | | 0 | 0 |
| 33 | 1, 3-Dichloro-Propylene* | YES | VOC | 0 | - | | | 0 | 0 |
| 34 | Ethylbenzene | | VOC | 0 | - | | | 0 | 0 |
| 35 | Methyl Bromide | | VOC | 0 | - | | | 0 | 0 |
| 36 | Methyl Chloride | | VOC | 0 | - | | | 0 | 0 |
| 37 | Methylene Chloride* | YES | VOC | 0 | - | | | 0 | 0 |
| 38 | 1, 1, 2, 2-Tetrachloro-Ethane* | YES | VOC | 0 | - | | | 0 | 0 |
| 39 | Tetrachloro-Ethylene* | YES | VOC | 0 | - | | | 0 | 0 |
| 40 | Toluene | | VOC | 0 | - | | | 0 | 0 |
| 41 | 1, 1, 1-Trichloroethane | | VOC | 0 | - | | | 0 | 0 |
| 42 | 1, 1, 2-Trichloroethane* | YES | VOC | 0 | - | | | 0 | 0 |
| 43 | Trichloroethylene* | YES | VOC | 0 | - | | | 0 | 0 |
| 44 | Vinyl Chloride* | YES | VOC | 0 | - | | | 0 | 0 |
| 45 | p-Chloro-m-Cresol | | Acids | 0 | - | | | 0 | 0 |
| 46 | 2-Chlorophenol | | Acids | 0 | - | | | 0 | 0 |
| 47 | 2, 4-Dichlorophenol | | Acids | 0 | - | | | 0 | 0 |
| 48 | 2, 4-Dimethylphenol | | Acids | 0 | - | | | 0 | 0 |
| 49 | 4, 6-Dinitro-O-Cresol | | Acids | 0 | - | | | 0 | 0 |
| 50 | 2, 4-Dinitrophenol | | Acids | 0 | - | | | 0 | 0 |
| 51 | 2-Nitrophenol | | Acids | 0 | - | | | 0 | 0 |
| 52 | 4-Nitrophenol | | Acids | 0 | - | | | 0 | 0 |
| 53 | Pentachlorophenol* | YES | Acids | 0 | - | | | 0 | 0 |
| 54 | Phenol | | Acids | 0 | - | | | 0 | 0 |
| 55 | 2, 4, 6-Trichlorophenol* | YES | Acids | 0 | - | | | 0 | 0 |
| 56 | Acenaphthene | | Bases | 0 | - | | | 0 | 0 |
| 57 | Acenaphthylene | | Bases | 0 | - | | | 0 | 0 |
| 58 | Anthracene | | Bases | 0 | - | | | 0 | 0 |
| 59 | Benzidine | | Bases | 0 | - | | | 0 | 0 |
| 60 | Benzo(A)Anthracene* | YES | Bases | 0 | - | | | 0 | 0 |
| 61 | Benzo(A)Pyrene* | YES | Bases | 0 | - | | | 0 | 0 |
| 62 | 3, 4 Benzo-Fluoranthene | | Bases | 0 | - | | | 0 | 0 |
| 63 | Benzo(GH)Perylene | | Bases | 0 | - | | | 0 | 0 |
| 64 | Benzo(K)Fluoranthene | | Bases | 0 | - | | | 0 | 0 |
| 65 | Bis (2-Chloroethoxy) Methane | | Bases | 0 | - | | | 0 | 0 |
| 66 | Bis (2-Chloroethyl)-Ether* | YES | Bases | 0 | - | | | 0 | 0 |
| 67 | Bis (2-Chloroisopropyl) Ether | | Bases | 0 | - | | | 0 | 0 |
| 68 | Bis (2-Ethylhexyl) Phthalate* | YES | Bases | 0 | - | | | 0 | 0 |
| 69 | 4-Bromophenyl Phenyl Ether | | Bases | 0 | - | | | 0 | 0 |
| 70 | Butyl Benzyl Phthalate | | Bases | 0 | - | | | 0 | 0 |
| 71 | 2-Chloronaphthalene | | Bases | 0 | - | | | 0 | 0 |
| 72 | 4-Chlorophenyl Phenyl Ether | | Bases | 0 | - | | | 0 | 0 |
| 73 | Chrysene* | YES | Bases | 0 | - | | | 0 | 0 |
| 74 | Di-N-Butyl Phthalate | | Bases | 0 | - | | | 0 | 0 |
| 75 | Di-N-Octyl Phthalate | | Bases | 0 | - | | | 0 | 0 |
| 76 | Dibenzo(A,H)Anthracene* | YES | Bases | 0 | - | | | 0 | 0 |
| 77 | 1, 2-Dichlorobenzene | | Bases | 0 | - | | | 0 | 0 |
| 78 | 1, 3-Dichlorobenzene | | Bases | 0 | - | | | 0 | 0 |
| 79 | 1, 4-Dichlorobenzene | | Bases | 0 | - | | | 0 | 0 |
| 80 | 3, 3-Dichlorobenzene* | YES | Bases | 0 | - | | | 0 | 0 |
| 81 | Diethyl Phthalate | | Bases | 0 | - | | | 0 | 0 |
| 82 | Dimethyl Phthalate | | Bases | 0 | - | | | 0 | 0 |
| 83 | 2, 4-Dinitrotoluene* | YES | Bases | 0 | - | | | 0 | 0 |
| 84 | 2, 6-Dinitrotoluene | | Bases | 0 | - | | | 0 | 0 |
| 85 | 1,2-Diphenylhydrazine | | Bases | 0 | - | | | 0 | 0 |
| 86 | Fluoranthene | | Bases | 0 | - | | | 0 | 0 |
| 87 | Fluorene | | Bases | 0 | - | | | 0 | 0 |
| 88 | Hexachlorobenzene* | YES | Bases | 0 | - | | | 0 | 0 |
| 89 | Hexachlorobutadiene* | YES | Bases | 0 | - | | | 0 | 0 |
| 90 | Hexachlorocyclopentadiene | | Bases | 0 | - | | | 0 | 0 |
| 91 | Hexachloroethane | | Bases | 0 | - | | | 0 | 0 |
| 92 | Indeno(1, 2, 3-CD)Pyrene* | YES | Bases | 0 | - | | | 0 | 0 |
| 93 | Isophorone | | Bases | 0 | - | | | 0 | 0 |
| 94 | Naphthalene | | Bases | 0 | - | | | 0 | 0 |
| 95 | Nitrobenzene | | Bases | 0 | - | | | 0 | 0 |
| 96 | N-Nitrosodi-N-Propylamine* | YES | Bases | 0 | - | | | 0 | 0 |
| 97 | N-Nitrosodi-N-Methylamine* | YES | Bases | 0 | - | | | 0 | 0 |
| 98 | N-Nitrosodi-N-Phenylamine* | YES | Bases | 0 | - | | | 0 | 0 |
| 99 | Phenanthrene | | Bases | 0 | - | | | 0 | 0 |
| 100 | Pyrene | | Bases | 0 | - | | | 0 | 0 |
| 101 | 1, 2, 4-Trichlorobenzene | | Bases | 0 | - | | | 0 | 0 |

| | |
|---------------------------------|---|
| 30 | Enter Q _d = waste discharge flow in MGD |
| 46.41687 | Q _s = waste discharge flow in cfs (this value is calculated from the MGD) |
| Enter to Left | C _s = Pollutant concentration in waste discharge in µg/l |
| 5.3817 | Enter 7Q10, Q _b = background stream flow in cfs above point of discharge |
| 4.036275 | Enter or estimated, 1Q10, Q _b = background stream flow in cfs above point of discharge (1Q10 estimated at 75% of |
| 98.7 | Enter Mean Annual Flow, Q _b = background stream flow in cfs above point of discharge |
| 10.2817 | Enter 7Q2, Q _b = background stream flow in cfs above point of discharge (For LWF class streams) |
| Enter to Left | C _s = background in-stream pollutant concentration in µg/l (assuming this is zero "0" unless there is data) |
| Q _d + Q _s | Q _r = resultant in-stream flow, after discharge |
| Calculated on other sheets | C _r = resultant in-stream pollutant concentration in µg/l in the stream (after complete mixing occurs) |
| 130 | Enter, background hardness above point of discharge (assumed 50 South of Birmingham and 100 North of Birmingham) |
| 7.80 s.u. | Enter, Background pH above point of discharge |
| YES | Enter, is discharge to a stream? YES. Other option would be to a Lake. (This changes the partition coefficients for the metals) |

* Carcinogen per Water Quality Criteria Table provided by Industrial Section
 ** Using Partition Coefficients

September 5, 2008

Facility Name: Jefferson County Five Mile Creek WWTPNPDES No.: AL0026913

The Water Quality Criteria (C) came from Industrial Section table, not equation.

Human Health Consumption Fish only (µg/l)

Carcinogen $Q_s = \text{Annual Average Non-}$ Carcinogen $Q_s = 7Q10$

| Freshwater F&W classification. | | | | | Max Daily Discharge as reported by Applicant (C _{max}) | Freshwater Acute (µg/l) Q _s = 1Q10 | | | | Avg Daily Discharge as reported by Applicant (C _{avg}) | Freshwater Chronic (µg/l) Q _s = 7Q10 | | | | Carcinogen Q _s = Annual Average Non-Carcinogen Q _s = 7Q10 | | | |
|--------------------------------|-------------------------------|--------------|----------------|------------------------------|--|---|--|---------------------------|-----|--|---|--|---------------------------|-----|---|--|---------------------------|-----|
| ID | Pollutant | Is there RP? | Carcinogen yes | Background (C _s) | | Water Quality Criteria (C _r) | Draft Permit Limit (C _{max}) | 20% of Draft Permit Limit | RP? | | Water Quality Criteria (C _r) | Draft Permit Limit (C _{avg}) | 20% of Draft Permit Limit | RP? | Water Quality Criteria (C _r) | Draft Permit Limit (C _{avg}) | 20% of Draft Permit Limit | RP? |
| 1 | Antimony | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 933 | 1041.17459 | 208.234919 | No |
| 2 | Arsenic | | YES | 0 | 0 | 592.334195 | 643.842167 | 128.768433 | No | 0 | 261.324042 | 291.622672 | 58.3245345 | No | 0.303 | 0.94729377 | 0.18945875 | No |
| 3 | Beryllium | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | - | - | - | - |
| 4 | Cadmium | | | 0 | 0 | 11.0114401 | 11.9689627 | 2.39379253 | No | 0 | 1.25072348 | 1.39573469 | 0.27914694 | No | - | - | - | - |
| 5 | Chromium/ Chromium III | | | 0 | 0 | 3263.52698 | 3656.00943 | 731.201885 | No | 0 | 437.525755 | 488.253699 | 97.6507398 | No | - | - | - | - |
| 6 | Copper | | | 0 | 0 | 44.3502748 | 48.2068447 | 9.64136894 | No | 0 | 28.8625074 | 32.231225 | 6.44624501 | No | - | - | - | - |
| 7 | Lead | | | 0 | 0 | 183.791921 | 199.773928 | 39.9547855 | No | 0 | 7.16310729 | 7.99250177 | 1.59850035 | No | - | - | - | - |
| 8 | Mercury | | | 0 | 0 | 2.4 | 2.60869697 | 0.52173939 | No | 0 | 0.012 | 0.01339131 | 0.00267826 | No | 0.042 | 0.0468696 | 0.00937392 | No |
| 9 | Nickel | | | 0 | 0 | 1157.62873 | 1258.29273 | 251.658546 | No | 0 | 128.576812 | 143.484363 | 28.6968725 | No | 993 | 1108.13116 | 221.626232 | No |
| 10 | Selenium | | | 0 | 0 | 20 | 21.7391414 | 4.34782828 | No | 0 | 5 | 5.5797138 | 1.11594276 | No | 2431 | 2712.85685 | 542.57137 | No |
| 11 | Silver | | | 0 | 0 | 5.05127317 | 5.49051709 | 1.09810342 | No | 0 | - | - | - | No | - | - | - | - |
| 12 | Thallium | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 1.37 | 1.52884158 | 0.30576832 | No |
| 13 | Zinc | | | 79 | 79 | 443.491642 | 482.056375 | 96.4112751 | No | 74 | 447.119285 | 498.959641 | 99.7919281 | No | 14894 | 16620.8515 | 3324.17029 | No |
| 14 | Cyanide | | | 0 | 0 | 22 | 23.9130555 | 4.78261111 | No | 0 | 5.2 | 5.80290235 | 1.16058047 | No | 46667 | 52077.7008 | 10415.5402 | No |
| 15 | Total Phenolic Compounds | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | - | - | - | - |
| 16 | Hardness (As CaCO3) | | | 150 | 150 | - | - | - | No | 150 | - | - | - | No | - | - | - | - |
| 17 | Acrolein | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 169 | 188.594326 | 37.7188653 | No |
| 18 | Acrylonitrile | YES | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 1.44 | 4.50199018 | 0.90039804 | No |
| 19 | Benzene | YES | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 155 | 484.58922 | 96.9178441 | No |
| 20 | Bromoform | YES | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 788 | 2463.58907 | 492.717814 | No |
| 21 | Carbon Tetrachloride | YES | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 9.573 | 29.9288555 | 5.98577111 | No |
| 22 | Chlorobenzene | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 4531 | 5056.33664 | 1011.26733 | No |
| 23 | Chlorodibromo-Methane | YES | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 74.07 | 231.57112 | 46.3142239 | No |
| 24 | Chloroethane | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | - | - | - | - |
| 25 | 2-Chloro-Ethylvinyl Ether | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | - | - | - | - |
| 26 | Chloroform | YES | | 0 | 6.14 | - | - | - | No | 5.81 | - | - | - | No | 1020 | 3188.90971 | 637.781942 | No |
| 27 | Dichlorobromo-Methane | YES | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 100 | 312.638207 | 62.5276414 | No |
| 28 | 1, 1-Dichloroethane | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | - | - | - | - |
| 29 | 1, 2-Dichloroethane | YES | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 214 | 669.045762 | 133.809152 | No |
| 30 | Trans-1, 2-Dichloro-Ethylene | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | - | - | - | - |
| 31 | 1, 1-Dichloroethylene | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 20833 | 23248.4355 | 4649.6871 | No |
| 32 | 1, 2-Dichloropropane | YES | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 84.94 | 265.554893 | 53.1109786 | No |
| 33 | 1, 3-Dichloro-Propylene | YES | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 123 | 384.544994 | 76.9089989 | No |
| 34 | Ethylbenzene | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 6222 | 6943.39585 | 1388.67917 | No |
| 35 | Methyl Bromide | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 871 | 971.986144 | 194.397229 | No |
| 36 | Methyl Chloride | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | - | - | - | - |
| 37 | Methylene Chloride | YES | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 3457 | 10807.9028 | 2161.58056 | No |
| 38 | 1, 1, 2, 2-Tetrachloro-Ethane | YES | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 23.33 | 72.9384936 | 14.5876987 | No |
| 39 | Tetrachloro-Ethylene | YES | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 19.17 | 59.9327442 | 11.9865488 | No |
| 40 | Toluene | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 43614 | 48670.7275 | 9734.1455 | No |
| 41 | 1, 1, 1-Trichloroethane | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | - | - | - | - |
| 42 | 1, 1, 2-Trichloroethane | YES | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 91 | 284.500768 | 56.9001536 | No |
| 43 | Trichloroethylene | YES | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 175 | 547.116862 | 109.423372 | No |
| 44 | Vinyl Chloride | YES | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 1146 | 3582.83385 | 716.56677 | No |
| 45 | P-Chloro-M-Cresol | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | - | - | - | - |
| 46 | 2-Chlorophenol | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 87 | 97.0870201 | 19.417404 | No |
| 47 | 2, 4-Dichlorophenol | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 172 | 191.942155 | 38.3884309 | No |
| 48 | 4-Dimethylphenol | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 498 | 555.739494 | 111.147899 | No |
| 49 | 4, 6-Dinitro-O-Cresol | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | - | - | - | - |
| 50 | 2, 4-Dinitrophenol | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 3111 | 3471.69793 | 694.339585 | No |
| 51 | 2-Nitrophenol | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | - | - | - | - |
| 52 | 4-Nitrophenol | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | - | - | - | - |
| 53 | Pentachlorophenol | YES | | 0 | 0 | 19.4919196 | 21.1868798 | 4.23737596 | No | 0 | 14.9543167 | 16.6881614 | 3.33763229 | No | 18 | 56.2748772 | 11.2549754 | No |
| 54 | Phenol | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 1000000 | 1115942.76 | 223188.552 | No |
| 55 | 2, 4, 6-Trichlorophenol | YES | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 14 | 43.7693489 | 8.75386979 | No |
| 56 | Acenaphthene | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 579 | 646.130858 | 129.226172 | No |
| 57 | Acenaphthylene | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | - | - | - | - |
| 58 | Anthracene | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 23333 | 26038.2924 | 5207.65848 | No |
| 59 | Benzidine | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 0.0012 | 0.00133913 | 0.0026783 | No |
| 60 | Benzo(A)Anthracene | YES | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 0.107 | 0.33452288 | 0.06690458 | No |
| 61 | Benzo(A)Pyrene | YES | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 0.107 | 0.33452288 | 0.06690458 | No |
| 62 | 3, 4 Benzo-Fluoranthene | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | - | - | - | - |
| 63 | Benzo(GH)Perylene | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | - | - | - | - |
| 64 | Benzo(K)Fluoranthene | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 0.107 | 0.11940588 | 0.02388118 | No |
| 65 | Bis (2-Chloroethoxy) Methane | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | - | - | - | - |
| 66 | Bis (2-Chloroethyl)-Ether | YES | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 3 | 9.3791462 | 1.87582924 | No |
| 67 | Bis (2-Chloroisopropyl) Ether | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 37787 | 42168.1291 | 8433.62581 | No |
| 68 | Bis (2-Ethylhexyl) Phthalate | YES | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 13 | 40.6429669 | 8.12859338 | No |
| 69 | 4-Bromophenyl Phenyl Ether | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | - | - | - | - |
| 70 | Butyl Benzyl Phthalate | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 1127 | 1257.66749 | 251.533498 | No |
| 71 | 2-Chloronaphthalene | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | 924 | 1031.13111 | 206.226222 | No |
| 72 | 4-Chlorophenyl Phenyl Ether | | | 0 | 0 | - | - | - | No | 0 | - | - | - | No | - | | | |

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
1400 Coliseum Boulevard
Montgomery, Alabama 36110-2059

FACT SHEET

APPLICATION FOR
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT
TO DISCHARGE POLLUTANTS
TO ALABAMA WATERS

Permit Number: AL0026913

Date: March 10, 2008

I. SYNOPSIS OF APPLICATION

A. Name and Address of Applicant:

Jefferson County Commission
Environmental Services Department
Suite A-300, 716 Richard Arrington Jr. Blvd. N.
Birmingham, Alabama 35203

B. Name and Address of Facility:

Five Mile Creek WWTP
3410 Happy Hollow Lane
Fultondale, Alabama 35068

C. Type of Facility: Municipal Wastewater Treatment Plant

D. Design Capacity of Facility: 30 MGD

E. Applicant's Receiving Water: Five Mile Creek

F. Location of Discharge:

Latitude: 33.593700
Longitude: -86.861900

G. Description of Wastewater Treatment Facilities:

Existing: Mechanical activated sludge with chlorination
Proposed: Mechanical activated sludge with sand filters and UV disinfection

H. Description of Discharge (as reported by applicant):

Outfall 001-1

| | | |
|---------------------|------------|------------------------------|
| Flow: | 11.3 | MGD (highest 30-day average) |
| CBOD5: | 2.2 | mg/L |
| TSS: | 8.0 | mg/L |
| NH ₃ -N: | 0.21 | mg/L |
| D.O.: | 8.8 | mg/L (minimum) |
| p.H. Range: | 6.8 to 8.2 | s.u. |

II. PROPOSED EFFLUENT LIMITATIONS

See Part I, Page 1 of draft permit.

III. MONITORING REQUIREMENTS

See Part I, Page 1 of draft permit.

IV. WATER QUALITY AND EFFLUENT STANDARDS APPLIED TO DISCHARGE

A. Receiving stream classification:

Receiving Waters
Five Mile Creek

Classification
F & W

B. Basis for final effluent limits:

CBOD; Waste Load Allocation Model
TSS; 40 CFR 133.102
NH3-N; Waste Load Allocation Model
TRC; ADEM Disinfection Strategy Toxicity Strategy
pH; 40 CFR 133.102
Toxicity; Chronic Toxicity as per Toxicity Strategy

C. Basis for effluent toxicity limits (separate rationale attached):

| | | |
|---|---|-----|
| Treatment Plant Design Flow: | 30 | MGD |
| Receiving stream 10-yr, 7-day low flow: | 5.3817 | cfs |
| Calculated In-Stream Waste Concentration: | 90 | % |
| Toxicity test required: | Chronic | |
| Toxicity limits: | Outfall 001-1 effluent shall not cause a statistically significant difference at the 95% confidence level between control organisms and test organisms when tested at the in-stream waste concentration of 90%. | |

V. EFFECTIVE DATE OF PROPOSED EFFLUENT LIMITS.

The proposed effluent limits shall be effective on the effective date of this permit.

VI. PROPOSED SPECIAL CONDITIONS WHICH HAVE A SIGNIFICANT IMPACT ON DISCHARGE.

None

VII. DISCUSSION OF PREVIOUS NPDES PERMIT CONDITIONS.

The previous permit was issued on August 29, 2002 and expired on September 30, 2007. The previous permit specified monthly average effluent limits as follows (summer/winter): CBOD5, 9/13 mg/l; TSS, 30/30 mg/l; NH3-N, 1.6/5 mg/l; pH, 6 to 9 s.u.; plus standard requirements. Mass limits included were based on design flow of 20 MGD.

VIII. PROCEDURES FOR FORMULATION OF FINAL DETERMINATIONS.

A. Comment Period

The Alabama Department of Environmental Management proposes to issue a NPDES permit to the applicant subject to effluent limits and special conditions outlined above. These determinations are tentative. Interested persons are invited to submit written comments on the permit application or on proposed determinations to the following address:

Permits and Services
Alabama Department of Environmental Management
Post Office Box 301463
Montgomery, Alabama 36130-1463

A public comment period will begin on October 15, 2008 and continue for 30 days. All comments received prior to or within 30 days of receiving a copy of the draft permit, whichever is later, will be considered in formulation of final determinations with regard to this application.

B. Public Hearing

The Director will hold a public hearing if there is a significant degree of public interest in a proposed permit or group of permits. The Director may hold a public hearing if he determines that useful information and data may be obtained thereby. Public notice of such a hearing will be circulated at least (30) days prior to the hearing, in newspapers in the geographical area of the discharge and to those on the EPA mailing list.

C. Issuance of the Permit

After consideration of all written comments and requirements and policies in the Alabama Water Pollution Control Act Code of Alabama 1975, §§22-22-1 through 22-22-14 (1984 and 1987 Cum. Supp.) and the Alabama Environmental Management Act Code of Alabama 1975, §§22-22A-1 through 22-22A-16 (1984 and 1987 Cum. Supp.) and applicable Administrative Rules promulgated thereunder, and, if a public hearing is held, after consideration of all comments, statements and data presented at the hearing, the Director will make determinations regarding permit issuance. If the determinations are substantially changed, the Director will issue a public notice indicating the revised determinations.

Unless a request for an adjudicatory hearing is granted, the proposed permit contained in the Director's determination shall become issued and effective and will be the final action of the Alabama Department of Environmental Management.

D. Adjudicatory Hearing

Any interested person adversely affected may submit a request for an adjudicatory hearing on the permit and its conditions within 15 days after notice to the aggrieved person by the Department of such action, or if no notice to the aggrieved person is given or required by the Alabama Environmental Management Act, Code of Alabama 1975, §§22-22A-1 through 22-22A-16, within 30 days of such action. A request for a hearing to contest an administrative action of the Department shall be made in accordance with ADEM Administrative Code Chapter 2-1, in writing and shall contain:

1. the name, mailing address and telephone number of the person making the request;
2. a short and plain statement identifying the administrative action of the Department being contested;
3. a short and plain statement of the threatened or actual injury suffered by the requester as a result of the administrative action of the Department;
4. a short statement of the terms and conditions which the requester proposes that the Commission should include in an order modifying or disapproving the Department's administrative action; and
5. the name, mailing address, and telephone number of the requester's attorney, if represented by an attorney.

A request for a hearing to contest an administrative action of the Department shall be filed with the Commission by delivering the same, either personally or by United States mail as certified mail, return receipt requested with instruction to the delivering postal employee to show to whom delivered, date of delivery, and address where delivered, to:

Chairman (or his designee)
Environmental Management Commission
Alabama Department of Environmental Management
Post Office Box 301463
Montgomery, Alabama 36130-1463

The granting of a request will stay only the contested portions of the permit. Uncontested provisions of the permit shall be considered issued and effective and the permittee must comply with such provisions. The final Commission decision on the permit provisions contested at an adjudictory hearing will be made in accordance with Commission Adjudicatory Hearing Regulations.

Prepared by: Kimberly Minton

| | | | | | | | | | | | | | | | | | | | |
|--|--|---|---|---|--|-----|---|---|------------------|--|---|---|---|----|----|--|--|--|----|
| FORM 1 GENERAL | | U.S. ENVIRONMENTAL PROTECTION AGENCY GENERAL INFORMATION <i>Consolidated Permits Program</i> <i>(Read the "General Instructions" before starting.)</i> | I. EPA I.D. NUMBER <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:5%; text-align: center;">S</td> <td style="width:85%;"></td> <td style="width:5%; text-align: center;">T/A</td> <td style="width:5%; text-align: center;">C</td> </tr> <tr> <td style="text-align: center;">F</td> <td style="text-align: center;">AL0026913</td> <td></td> <td style="text-align: center;">D</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> <td style="text-align: center;">13</td> <td style="text-align: center;">14</td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;">15</td> </tr> </table> | S | | T/A | C | F | AL0026913 | | D | 1 | 2 | 13 | 14 | | | | 15 |
| S | | T/A | C | | | | | | | | | | | | | | | | |
| F | AL0026913 | | D | | | | | | | | | | | | | | | | |
| 1 | 2 | 13 | 14 | | | | | | | | | | | | | | | | |
| | | | 15 | | | | | | | | | | | | | | | | |
| LABEL ITEMS | | GENERAL INSTRUCTIONS If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorization under which this data is collected. | | | | | | | | | | | | | | | | | |
| I. EPA I.D. NUMBER | AL0026913 | | | | | | | | | | | | | | | | | | |
| III. FACILITY NAME | Five Mile Creek WWTP | | | | | | | | | | | | | | | | | | |
| V. FACILITY MAILING LIST | Suite A-300,716 Richard Arrington,Jr.Blvd,North Birmingham,AL.35203 | | | | | | | | | | | | | | | | | | |
| VI. FACILITY LOCATION | 3410 Happy Hollow Lane Fultondale,AL.35068 | | | | | | | | | | | | | | | | | | |
| II. POLLUTANT CHARACTERISTICS | | | | | | | | | | | | | | | | | | | |
| INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms. | | | | | | | | | | | | | | | | | | | |
| SPECIFIC QUESTIONS | MARK "X" | | SPECIFIC QUESTIONS | | | | | | | | | | | | | | | | |
| YES | NO | FORM ATTACHED | YES | | | | | | | | | | | | | | | | |
| NO | FORM ATTACHED | YES | NO | | | | | | | | | | | | | | | | |
| FORM ATTACHED | FORM ATTACHED | YES | NO | | | | | | | | | | | | | | | | |
| A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | |
| B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | |
| C. Is this facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | |
| D. Is this proposal facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | |
| E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | |
| F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | |
| G. Do you or will you inject at this facility any produced water other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | |
| H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | |
| I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | |
| J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5) | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | | | | | | | | | | | | | | | | |
| III. NAME OF FACILITY | | | | | | | | | | | | | | | | | | | |
| C | SKIP | | | | | | | | | | | | | | | | | | |
| 1 | Five Mile Creek Wastewater Treatment Plant | | | | | | | | | | | | | | | | | | |
| 15 | 16-29 | 30 | 69 | | | | | | | | | | | | | | | | |
| IV. FACILITY CONTACT | | | | | | | | | | | | | | | | | | | |
| A. NAME & TITLE (last, first, & title) | | B. PHONE (area code & no.) | | | | | | | | | | | | | | | | | |
| C | Robert Henderson, Director | | 205 | | | | | | | | | | | | | | | | |
| 2 | | | 325 | | | | | | | | | | | | | | | | |
| 15 | 16 | 45 | 5979 | | | | | | | | | | | | | | | | |
| 15 | 16 | 46 | 49 | | | | | | | | | | | | | | | | |
| 15 | 16 | 47 | 51 | | | | | | | | | | | | | | | | |
| 15 | 16 | 48 | 52 | | | | | | | | | | | | | | | | |
| 15 | 16 | 49 | 55 | | | | | | | | | | | | | | | | |
| V. FACILITY MAILING ADDRESS | | | | | | | | | | | | | | | | | | | |
| A. STREET OR P.O. BOX | | | | | | | | | | | | | | | | | | | |
| C | Suite A-300,716 Richard Arrington,Jr.Blvd,North | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | |
| 15 | 16 | 45 | | | | | | | | | | | | | | | | | |
| B. CITY OR TOWN | | C. STATE | D. ZIP CODE | | | | | | | | | | | | | | | | |
| C | Birmingham | | AL. | | | | | | | | | | | | | | | | |
| 4 | | | 35203 | | | | | | | | | | | | | | | | |
| 15 | 16 | 40 | 47 | | | | | | | | | | | | | | | | |
| 15 | 16 | 41 | 51 | | | | | | | | | | | | | | | | |
| 15 | 16 | 42 | 52 | | | | | | | | | | | | | | | | |
| 15 | 16 | 43 | 53 | | | | | | | | | | | | | | | | |
| 15 | 16 | 44 | 54 | | | | | | | | | | | | | | | | |
| 15 | 16 | 45 | 55 | | | | | | | | | | | | | | | | |
| VI. FACILITY LOCATION | | | | | | | | | | | | | | | | | | | |
| A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER | | | | | | | | | | | | | | | | | | | |
| C | 3410 Happy Hollow Lane | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | |
| 15 | 16 | 45 | | | | | | | | | | | | | | | | | |
| B. COUNTY NAME | | C. CITY OR TOWN | | | | | | | | | | | | | | | | | |
| Jefferson | | Fultondale | | | | | | | | | | | | | | | | | |
| 46 | 70 | | | | | | | | | | | | | | | | | | |
| D. STATE | | E. ZIP CODE | F. COUNTY CODE | | | | | | | | | | | | | | | | |
| AL. | | 35068 | | | | | | | | | | | | | | | | | |
| 41 | 42 | 47 | 51 | | | | | | | | | | | | | | | | |
| 41 | 42 | 48 | 52 | | | | | | | | | | | | | | | | |
| 41 | 42 | 49 | 53 | | | | | | | | | | | | | | | | |
| 41 | 42 | 50 | 54 | | | | | | | | | | | | | | | | |
| 41 | 42 | 51 | 55 | | | | | | | | | | | | | | | | |

VII. SIC CODES (4-digit, in order of priority)

A. FIRST

B. SECOND

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|-----------|----|-------------------------------|--|--|--|--|--|--|--|---|-----------|----|----|----|--|--|--|--|--|--|--|--|--|--|
| C | (specify) | | | | | | | | | | 7 | (specify) | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | 7 | | | | | | | | | | | | | | |
| 15 | 16 | 17 | 4952, Sewerage Systems | | | | | | | | | | 15 | 16 | 19 | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|-----------|----|--|--|--|--|--|--|--|--|---|-----------|----|----|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| C. THIRD | | | | | | | | | | | | | | | D. FOURTH | | | | | | | | | | | | | | |
| C | (specify) | | | | | | | | | | 7 | (specify) | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | 7 | | | | | | | | | | | | | | | | | | |
| 15 | 16 | 17 | | | | | | | | | | | 15 | 16 | 19 | | | | | | | | | | | | | | |

VIII. OPERATOR INFORMATION

A. NAME

B. Is the name listed in Item VIII-A also the owner?

☐ YES ☐ NO

| | | | | | | | | | | | | | | | | | | | | | | |
|----|----|--|--|--|--|--|--|--|--|--|----|----|--|--|--|--|--|--|--|--|--|--|
| C | | | | | | | | | | | 55 | | | | | | | | | | | |
| 8 | | | | | | | | | | | 55 | | | | | | | | | | | |
| 18 | 19 | | | | | | | | | | | 55 | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other," specify.) | | | | | | | | | | | | | | | D. PHONE (area code & no.) | | | | | | | | | | | | | | |
| F = FEDERAL M = PUBLIC (other than federal or state) S = STATE O = OTHER (specify) P = PRIVATE | | | | | | | | | | | | | | | M (specify) | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 205 325 5979 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | 15 16 18 19 21 22 25 | | | | | | | | | | | | | | |

E. STREET OR PO BOX

Suite A300, 716 Richard Arrington, Jr. Blvd, North

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|--|--|--|--|-------------|--|--|--|--|---|--|--|--|--|--|--|--|--|--|
| F. CITY OR TOWN | | | | | | | | | | | | | | | G. STATE | | | | | H. ZIP CODE | | | | | IX. INDIAN LAND | | | | | | | | | |
| Birmingham | | | | | | | | | | | | | | | AL | | | | | 35203 | | | | | Is the facility located on Indian lands? | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water)

D. PSD (Air Emissions from Proposed Sources)

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----|----|----|-----------|----|--|--|--|--|--|--|--|--|---|----|----|-----|----|----|--|--|--|--|--|--|--|--|--|
| C | T | I | AL0026913 | | | | | | | | | | C | T | I | N/A | | | | | | | | | | | |
| 9 | N | | | | | | | | | | | | 9 | P | | | | | | | | | | | | | |
| 15 | 16 | 17 | 18 | 30 | | | | | | | | | | 15 | 16 | 17 | 18 | 30 | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----|----|-----|----|--|--|--|--|--|--|--|--|---|----|--------------------|-----|----|----|--|--|--|--|--|--|--|--|--|--|--|-----------|
| B. UIC (Underground Injection of Fluids) | | | | | | | | | | | | | | | E. OTHER (specify) | | | | | | | | | | | | | | | (Specify) |
| C | T | I | N/A | | | | | | | | | | C | T | I | N/A | | | | | | | | | | | | | | |
| 9 | U | | | | | | | | | | | | 9 | | | | | | | | | | | | | | | | | |
| 15 | 16 | 17 | 18 | 30 | | | | | | | | | | 15 | 16 | 17 | 18 | 30 | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------------------------|----|----|-----|----|--|--|--|--|--|--|--|--|---|----|--------------------|-----|----|----|--|--|--|--|--|--|--|--|--|--|--|-----------|
| C. RCRA (Hazardous Wastes) | | | | | | | | | | | | | | | E. OTHER (specify) | | | | | | | | | | | | | | | (Specify) |
| C | T | I | N/A | | | | | | | | | | C | T | I | N/A | | | | | | | | | | | | | | |
| 9 | R | | | | | | | | | | | | 9 | | | | | | | | | | | | | | | | | |
| 15 | 16 | 17 | 18 | 30 | | | | | | | | | | 15 | 16 | 17 | 18 | 30 | | | | | | | | | | | | |

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

Publicly owned wastewater treatment facility.

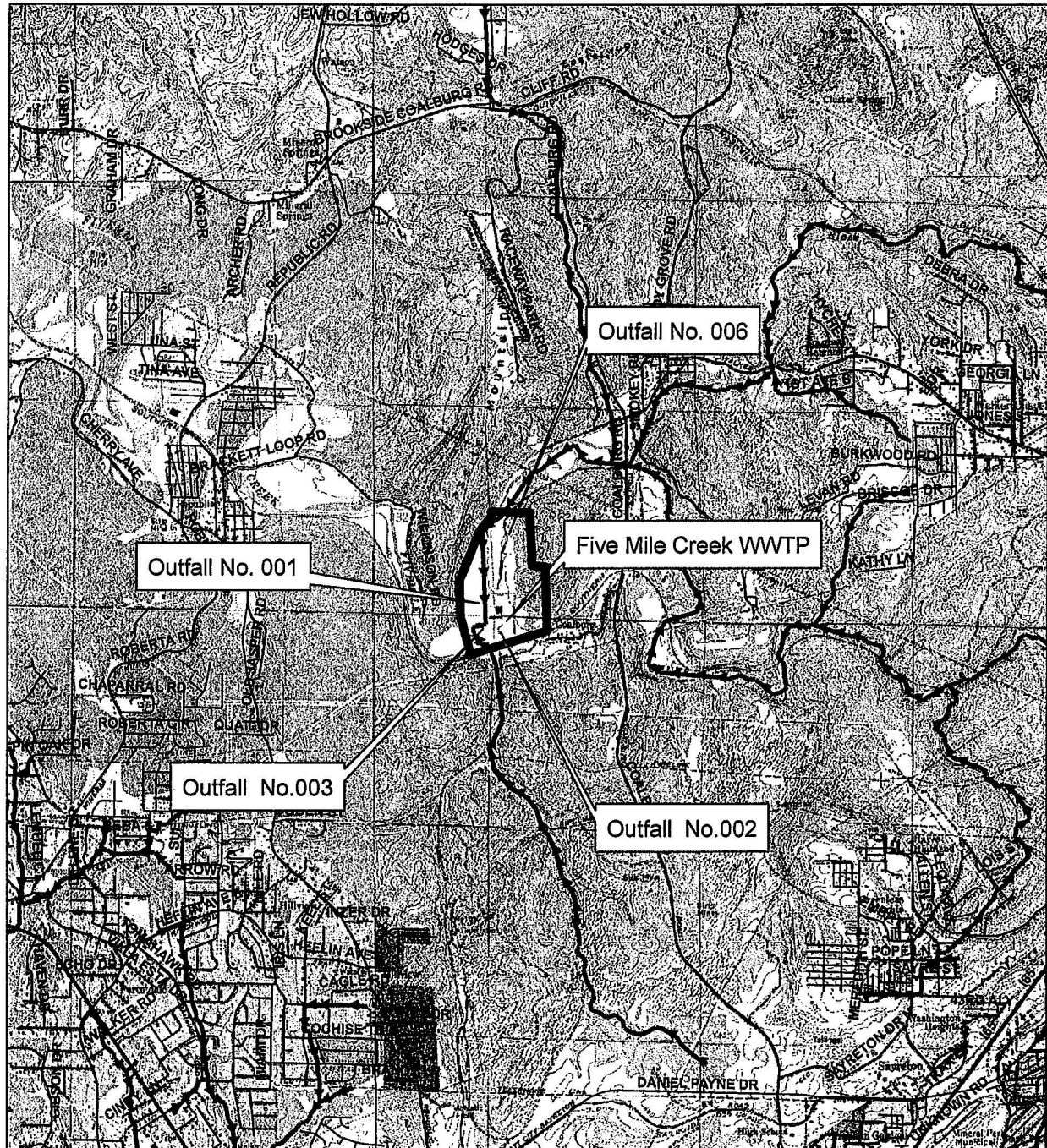
XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------------|--|--|--|--|--|--|--|--|--|
| A. NAME & OFFICIAL TITLE (type or print) | | | | | | | | | | | | | | | B. SIGNATURE | | | | | | | | | | | | | | | C. DATE SIGNED | | | | | | | | | |
| Robert Henderson, Director Environmental Services Department | | | | | | | | | | | | | | |  | | | | | | | | | | | | | | | 3/16/05 | | | | | | | | | |

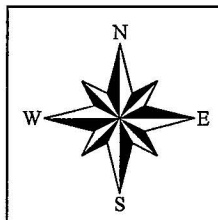
COMMENTS FOR OFFICIAL USE ONLY

| | | | | | | | | | | | | | | | | | | | | | | |
|----|----|--|--|--|--|--|--|--|--|--|----|----|--|--|--|--|--|--|--|--|--|--|
| C | | | | | | | | | | | 55 | | | | | | | | | | | |
| C | | | | | | | | | | | 55 | | | | | | | | | | | |
| 15 | 16 | | | | | | | | | | | 55 | | | | | | | | | | |



**Five Mile Creek WWTP
Jefferson County Commission**

Figure B.2



 Facility Property Boundary

Quadrangle Scale: 1" = 3,000'
Sewer structures are not drawn to scale

FACILITY NAME AND PERMIT NUMBER:

Five Mile Creek WWTP

AL0026913

Form Approved 1/14/99
OMB Number 2040-0086

FORM
2A
NPDES

NPDES FORM 2A APPLICATION OVERVIEW

APPLICATION OVERVIEW

Form 2A has been developed in a modular format and consists of a "Basic Application Information" packet and a "Supplemental Application Information" packet. The Basic Application Information packet is divided into two parts. All applicants must complete Parts A and C. Applicants with a design flow greater than or equal to 0.1 mgd must also complete Part B. Some applicants must also complete the Supplemental Application Information packet. The following items explain which parts of Form 2A you must complete.

BASIC APPLICATION INFORMATION:

- A. **Basic Application Information for all Applicants.** All applicants must complete questions A.1 through A.8. A treatment works that discharges effluent to surface waters of the United States must also answer questions A.9 through A.12.
- B. **Additional Application Information for Applicants with a Design Flow ≥ 0.1 mgd.** All treatment works that have design flows greater than or equal to 0.1 million gallons per day must complete questions B.1 through B.6.
- C. **Certification.** All applicants must complete Part C (Certification).

SUPPLEMENTAL APPLICATION INFORMATION:

- D. **Expanded Effluent Testing Data.** A treatment works that discharges effluent to surface waters of the United States and meets one or more of the following criteria must complete Part D (Expanded Effluent Testing Data):
 - 1. Has a design flow rate greater than or equal to 1mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to provide the information.
- E. **Toxicity Testing Data.** A treatment works that meets one or more of the following criteria must complete Part E (Toxicity Testing Data):
 - 1. Has a design flow rate greater than or equal to 1 mgd,
 - 2. Is required to have a pretreatment program (or has one in place), or
 - 3. Is otherwise required by the permitting authority to submit results of toxicity testing.
- F. **Industrial User Discharges and RCRA/CERCLA Wastes.** A treatment works that accepts process wastewater from any significant industrial users (SIUs) or receives RCRA or CERCLA wastes must complete Part F (Industrial User Discharges and RCRA/CERCLA Wastes). SIUs are defined as:
 - 1. All industrial users subject to Categorical Pretreatment Standards under 40 Code of Federal Regulations (CFR) 403.6 and 40 CFR Chapter I, Subchapter N (see instructions); and
 - 2. Any other industrial user that:
 - a. Discharges an average of 25,000 gallons per day or more of process wastewater to the treatment works (with certain exclusions); or
 - b. Contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the treatment plant; or
 - c. Is designated as an SIU by the control authority.
- G. **Combined Sewer Systems.** A treatment works that has a combined sewer system must complete Part G (Combined Sewer Systems).

ALL APPLICANTS MUST COMPLETE PART C (CERTIFICATION)

FACILITY NAME AND PERMIT NUMBER:

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BASIC APPLICATION INFORMATION

PART A. BASIC APPLICATION INFORMATION FOR ALL APPLICANTS:

All treatment works must complete questions A.1 through A.8 of this Basic Application Information Packet.

A.1. Facility Information.

Facility Name Five Mile Creek Wastewater Treatment Plant

Mailing Address Jefferson County Commission, Environmental Services Department
Suite A-300, 716 Richard Arrington, Jr. Blvd, North, Birmingham, AL 35203

Contact Person Robert Henderson

Title Director - Environmental Services Department

Telephone Number (205) 325-5806

Facility Address 3410 Happy Hollow Lane
(not P.O. Box) Fultondale, AL. 35068

A.2. Applicant Information. If the applicant is different from the above, provide the following:

Applicant Name same as above

Mailing Address _____

Contact Person _____

Title _____

Telephone Number (____) _____

Is the applicant the owner or operator (or both) of the treatment works?

☒ owner ☒ operator

Indicate whether correspondence regarding this permit should be directed to the facility or the applicant.

☐ facility ☒ applicant**A.3. Existing Environmental Permits.** Provide the permit number of any existing environmental permits that have been issued to the treatment works (include state-issued permits).

| | | | |
|-------|------------------|-------|------------|
| NPDES | <u>AL0026913</u> | PSD | <u>N/A</u> |
| UIC | <u>N/A</u> | Other | <u>N/A</u> |
| RCRA | <u>N/A</u> | Other | <u>N/A</u> |

A.4. Collection System Information. Provide information on municipalities and areas served by the facility. Provide the name and population of each entity and, if known, provide information on the type of collection system (combined vs. separate) and its ownership (municipal, private, etc.).

| Name | Population Served | Type of Collection System | Ownership |
|-------------------------|---------------------------|---------------------------|------------------|
| <u>Birmingham</u> | <u>N/A</u> | <u>separate</u> | <u>municipal</u> |
| <u>Center Point</u> | <u>N/A</u> | <u>separate</u> | <u>municipal</u> |
| <u>Gardendale</u> | <u>N/A</u> | <u>separate</u> | <u>municipal</u> |
| <u>Tarrant</u> | <u>N/A</u> | <u>separate</u> | <u>municipal</u> |
| <u>Fultondale</u> | <u>N/A</u> | <u>separate</u> | <u>municipal</u> |
| Total population served | <u>73,000 (estimated)</u> | | |

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A.5. Indian Country.

- a. Is the treatment works located in Indian Country?

☐ Yes ☒ No

- b. Does the treatment works discharge to a receiving water that is either in Indian Country or that is upstream from (and eventually flows through) Indian Country?

☐ Yes ☒ NoA.6. Flow. Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Also provide the average daily flow rate and maximum daily flow rate for each of the last three years. Each year's data must be based on a 12-month time period with the 12th month of "this year" occurring no more than three months prior to this application submittal.

- a. Design flow rate
- 20 mgd

| | <u>Two Years Ago</u> | <u>Last Year</u> | <u>This Year</u> |
|-----------------------------------|---|---|---|
| b. Annual average daily flow rate | <u>13.7 mgd</u> <small>01/2004 to 12/2004</small> | <u>12.9 mgd</u> <small>01/2005 to 12/2005</small> | <u>11.3 mgd</u> <small>01/2006 to 12/2006</small> |
| c. Maximum daily flow rate | <u>48.2 mgd</u> <small>2/2/2004</small> | <u>49.4 mgd</u> <small>09/06/2005</small> | <u>38.3 mgd</u> <small>03/21/2006</small> |

A.7. Collection System. Indicate the type(s) of collection system(s) used by the treatment plant. Check all that apply. Also estimate the percent contribution (by miles) of each.

- ☒ Separate sanitary sewer 100 %
- ☐ Combined storm and sanitary sewer _____ %

A.8. Discharges and Other Disposal Methods.

- a. Does the treatment works discharge effluent to waters of the U.S.?
- ☒
- Yes
- ☐
- No

If yes, list how many of each of the following types of discharge points the treatment works uses:

- i. Discharges of treated effluent 1
- ii. Discharges of untreated or partially treated effluent N/A
- iii. Combined sewer overflow points N/A
- iv. Constructed emergency overflows (prior to the headworks) N/A
- v. Other N/A

- b. Does the treatment works discharge effluent to basins, ponds, or other surface impoundments that do not have outlets for discharge to waters of the U.S.?
- ☐
- Yes
- ☒
- No

If yes, provide the following for each surface impoundment:

Location: _____

Annual average daily volume discharge to surface impoundment(s) _____ mgd

Is discharge ☐ continuous or ☐ intermittent?

- c. Does the treatment works land-apply treated wastewater?
- ☐
- Yes
- ☒
- No

If yes, provide the following for each land application site:

Location: _____

Number of acres: _____

Annual average daily volume applied to site: _____ mgd

Is land application ☐ continuous or ☐ intermittent?

- d. Does the treatment works discharge or transport treated or untreated wastewater to another treatment works?
- ☐
- Yes
- ☒
- No

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If yes, describe the mean(s) by which the wastewater from the treatment works is discharged or transported to the other treatment works (e.g., tank truck, pipe).

If transport is by a party other than the applicant, provide:

Transporter Name _____

Mailing Address _____

Contact Person _____

Title _____

Telephone Number () _____

For each treatment works that receives this discharge, provide the following:

Name _____

Mailing Address _____

Contact Person _____

Title _____

Telephone Number () _____

If known, provide the NPDES permit number of the treatment works that receives this discharge _____

Provide the average daily flow rate from the treatment works into the receiving facility. _____ mgd

- e. Does the treatment works discharge or dispose of its wastewater in a manner not included in A.8. through A.8.d above (e.g., underground percolation, well injection): ☐ Yes ☒ No

If yes, provide the following for each disposal method:

Description of method (including location and size of site(s) if applicable):

N/A

Annual daily volume disposed by this method: N/A

Is disposal through this method ☐ continuous or ☐ intermittent?

FACILITY NAME AND PERMIT NUMBER:

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WASTEWATER DISCHARGES:

If you answered "yes" to question A.8.a, complete questions A.9 through A.12 once for each outfall (including bypass points) through which effluent is discharged. Do not include information on combined sewer overflows in this section. If you answered "no" to question A.8.a, go to Part B, "Additional Application Information for Applicants with a Design Flow Greater than or Equal to 0.1 mgd."

A.9. Description of Outfall.

- a. Outfall number 001
- b. Location Fultondale 35068
(City or town, if applicable) (Zip Code)
Jefferson AL
(County) (State)
N 33 D 35' 39.2" W 86 D 52' 03.4"
(Latitude) (Longitude)
- c. Distance from shore (if applicable) N/A ft.
- d. Depth below surface (if applicable) N/A ft.
- e. Average daily flow rate 11.3 mgd
- f. Does this outfall have either an intermittent or a periodic discharge?
☐ Yes ☒ No (go to A.9.g.)
If yes, provide the following information:
Number of times per year discharge occurs: N/A
Average duration of each discharge: N/A
Average flow per discharge: N/A mgd
Months in which discharge occurs: N/A
- g. Is outfall equipped with a diffuser? ☐ Yes ☒ No

A.10. Description of Receiving Waters.

- a. Name of receiving water Five Mile Creek
- b. Name of watershed (if known) Black Warrior
United States Soil Conservation Service 14-digit watershed code (if known): 03-160-111-130-176
- c. Name of State Management/River Basin (if known): Black Warrior
United States Geological Survey 8-digit hydrologic cataloging unit code (if known): 03160111
- d. Critical low flow of receiving stream (if applicable)
acute N/A cfs chronic 7Q10 = 14 cfs
- e. Total hardness of receiving stream at critical low flow (if applicable): 200 mg/l of CaCO₃

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a. What levels of treatment are provided? Check all that apply.

☒ Primary☒ Secondary☒ Advanced☐ Other. Describe: Advanced treatment & sand filtration will be provided in the current construction project.

b. Indicate the following removal rates (as applicable):

Design BOD5 removal or Design CBOD5 removal 94 %Design SS removal 85 %Design P removal N/A %Design N removal 90 %Other N/A N/A %

c. What type of disinfection is used for the effluent from this outfall? If disinfection varies by season, please describe:

Chlorination followed by dechlorination.

If disinfection is by chlorination is dechlorination used for this outfall?

☒ Yes☐ No

d. Does the treatment plant have post aeration?

☒ Yes☐ No

A.12 Effluent Testing Information. All Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide the indicated effluent testing required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum, effluent testing data must be based on at least three samples and must be no more than four and one-half years apart.

Outfall number: 001 Calendar Year 2006

| PARAMETER | MAXIMUM DAILY VALUE | | AVERAGE DAILY VALUE | | |
|--------------------------------|---------------------|-------|---------------------|-------|-------------------|
| | Value | Units | Value | Units | Number of Samples |
| pH (Minimum) | 6.8 | s.u. | | | |
| pH (Maximum) | 8.2 | s.u. | | | |
| Flow Rate | 38.3 | mgd | 11.3 | mgd | Continuous |
| Temperature (Winter) Dec-Feb | 63.0 | °F | 57.5 | °F | 64 |
| Temperature (Summer) Jun - Aug | 80.0 | °F | 72.4 | °F | 66 |

* For pH please report a minimum and a maximum daily value

| POLLUTANT | MAXIMUM DAILY DISCHARGE | | AVERAGE DAILY DISCHARGE | | | ANALYTICAL METHOD | ML/MDL |
|-----------|-------------------------|-------|-------------------------|-------|-------------------|-------------------|--------|
| | Conc. | Units | Conc. | Units | Number of Samples | | |

CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS

| | | | | | | | |
|--|-------|------------|------|-----------|------|--------|---------------|
| BIOCHEMICAL OXYGEN DEMAND (Report one) | BOD5 | N/A | | | | | |
| | CBOD5 | 10.2 | mg/L | 2.2 | mg/L | 260 | 5210-B 2 mg/L |
| FECAL COLIFORM | 2500 | cfu/100 mL | ST | cfu/100mL | 260 | 9222-D | 1 cfu/100mL |

| | | | | | | | |
|---|----|------|-----|------|-----|--------|-----------|
| TOTAL SUSPENDED SOLIDS (TSS) | 29 | mg/L | 8.0 | mg/L | 260 | 2540-D | 0.01 mg/L |
| END OF PART A. REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE | | | | | | | |

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BASIC APPLICATION INFORMATION

PART B. ADDITIONAL APPLICATION INFORMATION FOR APPLICANTS WITH A DESIGN FLOW GREATER THAN OR EQUAL TO 0.1 MGD (100,000 gallons per day).

All applicants with a design flow rate ≥ 0.1 mgd must answer questions B.1 through B.6. All others go to Part C (Certification).

B.1. Inflow and Infiltration. Estimate the average number of gallons per day that flow into the treatment works from inflow and/or infiltration.

3.79 MGD

Briefly explain any steps underway or planned to minimize inflow and infiltration.

Jefferson County has completed construction on over \$76.9 million worth of sanitary sewer replacement and rehabilitation in the Five Mile Creek Collection System and continues to perform routine maintenance, TV inspection, flow monitoring, and sewer line repairs to help reduce I/I and prevent SSO's.

B.2. Topographic Map. Attach to this application a topographic map of the area extending at least one mile beyond facility property boundaries. This map must show the outline of the facility and the following information. (You may submit more than one map if one map does not show the entire area.)

- The area surrounding the treatment plant, including all unit processes. *(see figure B.2)
- The major pipes or other structures through which wastewater enters the treatment works and the pipes or other structures through which treated wastewater is discharged from the treatment plant. Include outfalls from bypass piping, if applicable. *(see figure B.2)
- Each well where wastewater from the treatment plant is injected underground. *(N/A)
- Wells, springs, other surface water bodies, and drinking water wells that are: 1) within $\frac{1}{4}$ mile of the property boundaries of the treatment works, and 2) listed in public record or otherwise known to the applicant. *(see figure B.2)
- Any areas where the sewage sludge produced by the treatment works is stored, treated, or disposed. *(see figures B.2.e.1 & B.2.e.2)
- If the treatment works receives waste that is classified as hazardous under the Resource Conservation and Recovery Act (RCRA) by truck, rail, or special pipe, show on the map where the hazardous waste enters the treatment works and where it is treated, stored, and/or disposed. *(N/A)

B.3. Process Flow Diagram or Schematic. Provide a diagram showing the processes of the treatment plant, including all bypass piping and backup power sources or redundancy in the system. Also provide a water balance showing all treatment units, including disinfection (e.g., chlorination and dechlorination). The water balance must show daily average flow rates at influent and discharge points and approximate daily flow rates between treatment units. Include a brief narrative description of the diagram. *(see figures B.3.a. Flow Schematic, B.3.a.1. Water Balance for existing plant and figures B.3.b. Flow Schematic, B.3.b.1. Water Balance for the future plant)

B.4. Operation/Maintenance Performed by Contractor(s).

Are any operational or maintenance aspects (related to wastewater treatment and effluent quality) of the treatment works the responsibility of a contractor? ☐ Yes ☒ No

If yes, list the name, address, telephone number, and status of each contractor and describe the contractor's responsibilities (attach additional pages if necessary).

Name: N/A

Mailing Address: _____

Telephone Number: ()

Responsibilities of Contractor: _____

B.5. Scheduled improvements and Schedules of Implementation. Provide information on any uncompleted implementation schedule or uncompleted plans for improvements that will affect the wastewater treatment, effluent quality, or design capacity of the treatment works. If the treatment works has several different implementation schedules or is planning several improvements, submit separate responses to question B.5 for each. (If none, go to question B.6.)

- a. List the outfall number (assigned in question A.9) for each outfall that is covered by this implementation schedule.

N/A

- b. Indicate whether the planned improvements or implementation schedule are required by local, State, or Federal agencies.

☐ Yes ☐ No

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c. If the answer to B.5.b is "Yes," briefly describe, including new maximum daily inflow rate (if applicable).

d. Provide dates imposed by any compliance schedule or any actual dates of completion for the implementation steps listed below, as applicable. For improvements planned independently of local, State, or Federal agencies, indicate planned or actual completion dates, as applicable. Indicate dates as accurately as possible.

| | Schedule | Actual Completion |
|----------------------------|-------------------|-------------------|
| Implementation Stage | <u>MM/DD/YYYY</u> | <u>MM/DD/YYYY</u> |
| - Begin Construction | | |
| - End Construction | | |
| - Begin Discharge | | |
| - Attain Operational Level | | |

e. Have appropriate permits/clearances concerning other Federal/State requirements been obtained? ☐ Yes ☐ No

Describe briefly: _____

B.6. EFFLUENT TESTING DATA (GREATER THAN 0.1 MGD ONLY).

Applicants that discharge to waters of the US must provide effluent testing data for the following parameters. Provide effluent testing for the following listed parameters and those required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. At a minimum effluent testing data must be based on at least three pollutant scans, preferably represent several seasons, and must be no more than four and on-half years old.

Outfall Number: 001 Calendar Year 2006

| POLLUTANT | MAXIMUM DAILY DISCHARGE | | AVERAGE DAILY DISCHARGE | | | ANALYTICAL METHOD | ML/MDL |
|---|-------------------------|-------|-------------------------|-------|------------------------|-------------------------|-----------|
| | Conc. | Units | Conc. | Units | Number of Samples | | |
| CONVENTIONAL AND NON CONVENTIONAL COMPOUNDS | | | | | | | |
| AMMONIA (as N) | 4.3 | mg/L | 0.21 | mg/L | 260 | 4500-NH ₃ -G | 0.09 mg/L |
| CHLORINE (TOTAL RESIDUAL, TRC) | 0.02 | mg/L | <0.02 | mg/L | 260 | 4500-CL-G | 0.02 mg/L |
| DISSOLVED OXYGEN | 9.6 | mg/L | 8.8 | mg/L | 260 | 4500-O-G | 0.05 mg/L |
| TOTAL KJELDAHL NITROGEN (TKN) | 9.8 | mg/L | 0.68 | mg/L | 260 | 4500-N-B | 0.09 mg/L |
| NITRATE PLUS NITRITE NITROGEN | 16 | mg/L | 8.8 | mg/L | 260 | 4500-NO ₃ -H | 0.09 mg/L |
| OIL and GREASE | N/A | | N/A | | Not required by permit | | |
| PHOSPHORUS (Total) | N/A | | N/A | | Not required by permit | | |
| TOTAL DISSOLVED SOLIDS (TDS) | N/A | | N/A | | Not required by permit | | |
| OTHER | | | | | | | |

END OF PART B.**REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE**

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BASIC APPLICATION INFORMATION

PART C. CERTIFICATION

All applicants must complete the Certification Section. Refer to instructions to determine who is an officer for the purposes of this certification. All applicants must complete all applicable sections of Form 2A, as explained in the Application Overview. Indicate below which parts of Form 2A you have completed and are submitting. By signing this certification statement, applicants confirm that they have reviewed Form 2A and have completed all sections that apply to the facility for which this application is submitted.

Indicate which parts of Form 2A you have completed and are submitting:

☒ Basic Application Information packet

Supplemental Application Information packet:

☒ Part D (Expanded Effluent Testing Data)

☒ Part E (Toxicity Testing: Biomonitoring Data)

☒ Part F (Industrial User Discharges and RCRA/CERCLA Wastes)

☐ Part G (Combined Sewer Systems)

ALL APPLICANTS MUST COMPLETE THE FOLLOWING CERTIFICATION.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name and official title Robert Henderson - Director Of Environmental Services

Signature 

Telephone number (205) 325-5979

Date signed 3/16/07

Upon request of the permitting authority, you must submit any other information necessary to assure wastewater treatment practices at the treatment works or identify appropriate permitting requirements.

SEND COMPLETED FORMS TO:

FACILITY NAME AND PERMIT NUMBER:

Five Mile Creek WWTP

AL0026913

Form Approved 1/14/99
OMB Number 2040-0086**SUPPLEMENTAL APPLICATION INFORMATION****PART D. EXPANDED EFFLUENT TESTING DATA**

Refer to the directions on the cover page to determine whether this section applies to the treatment works.

Effluent Testing: 1.0 mgd and Pretreatment Works. If the treatment works has a design flow greater than or equal to 1.0 mgd or it has (or is required to have) a pretreatment program, or is otherwise required by the permitting authority to provide the data, then provide effluent testing data for the following pollutants. Provide the indicated effluent testing information and any other information required by the permitting authority for each outfall through which effluent is discharged. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analyses conducted using 40 CFR Part 136 methods. In addition, these data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. Indicate in the blank rows provided below any data you may have on pollutants not specifically listed in this form. At a minimum, effluent testing data must be based on at least three pollutant scans and must be no more than four and one-half years old.

Outfall number: **001** (Complete once for each outfall discharging effluent to waters of the United States.)

| POLLUTANT | MAXIMUM DAILY DISCHARGE | | | | AVERAGE DAILY DISCHARGE | | | | | ANALYTICAL METHOD | ML/MDL |
|--|-------------------------|-------|------|--------|-------------------------|-------|------|--------|-------------------|-------------------|--------|
| | Conc. | Units | Mass | Units | Conc. | Units | Mass | Units | Number of Samples | | |
| METALS (TOTAL RECOVERABLE), CYANIDE, PHENOLS, AND HARDNESS. | | | | | | | | | | | |
| ANTIMONY | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 200.7 | 27 |
| ARSENIC | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 200.7 | 24 |
| BERYLLIUM | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 200.7 | 6 |
| CADMIUM | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 200.7 | 6 |
| CHROMIUM | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 200.7 | 3 |
| COPPER | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 200.7 | 15 |
| LEAD | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 200.7 | 18 |
| MERCURY | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 7471B | 0.9 |
| NICKEL | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 200.7 | 15 |
| SELENIUM | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 200.7 | 21 |
| SILVER | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 200.7 | 3 |
| THALLIUM | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 200.7 | 21 |
| ZINC | 79 | ppb | 4.48 | lbs/da | 74 | ppb | 3.89 | lbs/da | 4 | 200.7 | 18 |
| CYANIDE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 4500-CNE | 50 |
| TOTAL PHENOLIC COMPOUNDS | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 9066 | 120 |
| HARDNESS (AS CaCO ₃) | 150 | ppm | 0 | lbs/da | 150 | ppm | 0 | lbs/da | 4 | 2340C | N/A |
| Use this space (or a separate sheet) to provide information on other metals requested by the permit writer | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

FACILITY NAME AND PERMIT NUMBER:

Five Mile Creek WWTP

AL0026913

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Outfall number: 001 (Complete once for each outfall discharging effluent to waters of the United States.)

| POLLUTANT | MAXIMUM DAILY DISCHARGE | | | | AVERAGE DAILY DISCHARGE | | | | | ANALYTICAL METHOD | ML/MDL |
|-----------------------------|-------------------------|-------|------|--------|-------------------------|-------|------|--------|-------------------|-------------------|--------|
| | Conc. | Units | Mass | Units | Conc. | Units | Mass | Units | Number of Samples | | |
| VOLATILE ORGANIC COMPOUNDS | | | | | | | | | | | |
| ACROLEIN | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 20 |
| ACRYLONITRILE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 20 |
| BENZENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |
| BROMOFORM | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |
| CARBON TETRACHLORIDE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |
| COLORBENZENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |
| CHLOROBIDBROMO-METHANE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |
| CHLOROETHANE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |
| 2-CHLORO-ETHYLVINYL ETHER | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 20 |
| CHOLOROFORM | 6.14 | ppb | 0.32 | lbs/da | 5.81 | ppb | 0.31 | lbs/da | 4 | 624 | 2 |
| DICHLOROBROMO-METHANE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |
| 1,1-DICHLOROETHANE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |
| TRANS-1,2-DICHLORO-ETHYLENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |
| 1,1-DICHLOROPROPANE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |
| ETHYLBENZENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |
| METHYL BROMIDE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |
| METHYL CHLORIDE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |
| METHYLENE CHLORIDE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |
| 1,1,2,2-TETRACHLORO-ETHANE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |
| TETRACHLORO-ETHYLENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |
| TOLUENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |

FACILITY NAME AND PERMIT NUMBER:

Five Mile Creek WWTP

AL0026913

Form Approved 1/14/99
OMB Number 2040-0086

Outfall number: 001

(Complete once for each outfall discharging effluent to waters of the United States.)

| POLLUTANT | MAXIMUM DAILY DISCHARGE | | | | AVERAGE DAILY DISCHARGE | | | | | ANALYTICAL METHOD | ML/MDL |
|-----------------------|-------------------------|-------|------|--------|-------------------------|-------|------|--------|-------------------|-------------------|--------|
| | Conc. | Units | Mass | Units | Conc. | Units | Mass | Units | Number of Samples | | |
| 1,1,1-TRICHLOROETHANE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |
| 1,1,2-TRICHLOROETHANE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |
| TRICHLOROETHYLENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |
| VINYL CHLORIDE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 624 | 2 |

Use this space (or a separate sheet) to provide information on other metals requested by the permit writer

ACID-EXTRACTABLE COMPOUNDS

| | | | | | | | | | | | |
|------------------------|---|-----|---|--------|---|-----|---|--------|---|-----|----|
| P-CHLORO-M-CRESOL | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 25 |
| 2-CHLOROPHENOL | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 25 |
| 2,4-DIMETHYLPHENOL | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 25 |
| 4,6-DINITRO-O-CRESOL | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 25 |
| 2,4-DINITROPHENOL | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 25 |
| 2-NITROPHENOL | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 25 |
| 4-NITROPHENOL | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 25 |
| PENTA CHLOROPHENOL | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 25 |
| PHENOL | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 25 |
| 2,4,6-TRICHLORO PHENOL | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 25 |

Use this space (or a separate sheet) to provide information on other metals requested by the permit writer

BASE-NEUTRAL COMPOUNDS

| | | | | | | | | | | | |
|---------------------|---|-----|---|--------|---|-----|---|--------|---|-----|----|
| ACENAPHTHENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| ACENAPHTYLENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| ANTHRACENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| BENZIDINE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 25 |
| BENZO(A) ANTHRACENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| BENZO(A)PYRENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |

FACILITY NAME AND PERMIT NUMBER:

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Outfall number: 001

(Complete once for each outfall discharging effluent to waters of the United States.)

| POLLUTANT | MAXIMUM DAILY DISCHARGE | | | | AVERAGE DAILY DISCHARGE | | | | | ANALYTICAL METHOD | ML/MDL |
|-------------------------------|-------------------------|-------|------|--------|-------------------------|-------|------|--------|-------------------|-------------------|--------|
| | Conc. | Units | Mass | Units | Conc. | Units | Mass | Units | Number of Samples | | |
| 3,4-BENZO-FLUORANTHENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| BENZO(GH)PERYLENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| BENZO(K)FLUORANTHENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| BIS (2-CHLOROETHOXY) METHANE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| BIS (2-CHLOROETHYL)-ETHER | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| BIS (2-CHLOROISOPROPYL) ETHER | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| BIS (2-ETHYLHEXYL) PHTHALATE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| 4-BROMOPHENYL PHENYL ETHER | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| BUTYL BENZYL PHTHALATE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| 2-CHLORO NAPHTHALENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| 4-CHLOROPHENYL PHENYL ETHER | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| CHRYSENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| DI-N-BUTYL PHTHALATE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| DI-N-OCTYL PHTHALATE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| DIBENZO(A,H) ANTHRACENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| 1,2-DICHLORO BENZENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| 1,3-DICHLORO BENZENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| 1,4-DICHLORO BENZENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| 3,3-DICHLORO BENZIDINE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| DIETHYL PHTHALATE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| DIMETHYL PHTHALATE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| 2,4-DINITROTOLUENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| 2,6-DINITROTOLUENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| 1,2-DIPHENYLHYDRAZINE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |

FACILITY NAME AND PERMIT NUMBER:

Five Mile Creek WWTP

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OMB Number 2040-0086

Outfall number: 001

(Complete once for each outfall discharging effluent to waters of the United States.)

| POLLUTANT | MAXIMUM DAILY DISCHARGE | | | | AVERAGE DAILY DISCHARGE | | | | | ANALYTICAL METHOD | ML/MDL |
|----------------------------|-------------------------|-------|------|--------|-------------------------|-------|------|--------|-------------------|-------------------|--------|
| | Conc. | Units | Mass | Units | Conc. | Units | Mass | Units | Number of Samples | | |
| FLUORANTHENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| FLUORENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| HEXACHLORO BENZENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| HEXACHLOROBUT ADIENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| HEXACHLOROCYCLO-PENTADIENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| HEXA CHLOROETHANE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| INDENO(1,2,3-CD) PYRENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| ISOPHORONE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| NAPHTHALENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| NITROBENZENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| N-NITROSODI-N-PROPYLAMINE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| N-NITROSODI-METHYLAMINE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| N-NITROSODI-PHENYLAMINE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| PHENANTHRENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| PYRENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |
| 1,2,4-TRICHLOROBENZENE | 0 | ppb | 0 | lbs/da | 0 | ppb | 0 | lbs/da | 4 | 625 | 5 |

Use this space (or a separate sheet) to provide information on other metals requested by the permit writer

Use this space (or a separate sheet) to provide information on other metals requested by the permit writer

END OF PART D.**REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE**

FACILITY NAME AND PERMIT NUMBER:

Five Mile Creek WWTP

AL0026913

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SUPPLEMENTAL APPLICATION INFORMATION

PART E. TOXICITY TESTING DATA

POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters.

- At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136.
- In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity test conducted during the past four and one-half years revealed toxicity, provide any information on the cause of the toxicity or any results of a toxicity reduction evaluation, if one was conducted.
- If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E.

If no biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to complete.

E.1. Required Tests.

Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years.

☐ chronic ☐ acute

E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one column per test (where each species constitutes a test). Copy this page if more than three tests are being reported.

Test number: _____ Test number: _____ Test number: _____

a. Test information.

| | | | |
|-----------------------------------|--|--|--|
| Test Species & test method number | | | |
| Age at initiation of test | | | |
| Outfall number | | | |
| Dates sample collected | | | |
| Date test started | | | |
| Duration | | | |

b. Give toxicity test methods followed.

| | | | |
|--|--|--|--|
| Manual title | | | |
| Edition number and year of publication | | | |
| Page number(s) | | | |

c. Give the sample collection method(s) used. For multiple grab samples, indicate the number of grab samples used.

| | | | |
|-------------------|--|--|--|
| 24-Hour composite | | | |
| Grab | | | |

d. Indicate where the sample was taken in relation to disinfection. (Check all that apply for each.)

| | | | |
|----------------------|--|--|--|
| Before disinfection | | | |
| After disinfection | | | |
| After dechlorination | | | |

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Test number: _____

Test number: _____

Test number: _____

e. Describe the point in the treatment process at which the sample was collected.

Sample was collected:

f. For each test, include whether the test was intended to assess chronic toxicity, acute toxicity, or both

Chronic toxicity

Acute toxicity

g. Provide the type of test performed.

Static

Static-renewal

Flow-through

h. Source of dilution water. If laboratory water, specify type; if receiving water, specify source.

Laboratory water

Receiving water

i. Type of dilution water. If salt water, specify "natural" or type of artificial sea salts or brine used.

Fresh water

Salt water

j. Give the percentage effluent used for all concentrations in the test series.

k. Parameters measured during the test. (State whether parameter meets test method specifications)

pH

Salinity

Temperature

Ammonia

Dissolved oxygen

l. Test Results.

Acute:

Percent survival in 100%
effluent

%

%

%

LC₅₀

95% C.I.

%

%

%

Control percent survival

%

%

%

Other (describe)

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Chronic:

| | | | |
|---|-----|-----|-----|
| NOEC | % | % | % |
| IC ₂₅ | % | % | % |
| Control percent survival | % | % | % |
| Other (describe) | | | |
| m. Quality Control/Quality Assurance. | | | |
| Is reference toxicant data available? | | | |
| Was reference toxicant test within acceptable bounds? | | | |
| What date was reference toxicant test run (MM/DD/YYYY)? | / / | / / | / / |
| Other (describe) | | | |

E.3. Toxicity Reduction Evaluation. Is the treatment works involved in a Toxicity Reduction Evaluation?☐ Yes ☒ NoIf yes, describe: _____

_____**E.4. Summary of Submitted Biomonitoring Test Information.** If you have submitted biomonitoring test information, or information regarding the cause of toxicity, within the past four and one-half years, provide the dates the information was submitted to the permitting authority and a summary of the results.Date submitted: See below (MM/DD/YYYY) Reports submitted in accordance with Permit Requirements for the

Summary of results: (see instructions) the following reporting periods: Aug, Nov, 2000; Feb, May, Aug, Nov,

All tests passed. May 2002, August 2003, August 2004, August 2005, August 2006
_____**END OF PART E.****REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE.**

FACILITY NAME AND PERMIT NUMBER:

Five Mile Creek WWTP

AL0026913

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SUPPLEMENTAL APPLICATION INFORMATION

PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete part F.

GENERAL INFORMATION:

F.1. Pretreatment program. Does the treatment works have, or is subject to, an approved pretreatment program?

☒ Yes ☐ No

F.2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.

a. Number of non-categorical SIUs. 6

b. Number of CIUs. 5

SIGNIFICANT INDUSTRIAL USER INFORMATION::

Supply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU.

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Maclean Dixie LLC

Mailing Address: P.O.BOX 170040

Birmingham AL 35217

F.4. Industrial Processes. Describe all the industrial processes that affect or contribute to the SIU's discharge.

Metal finishing operations (No discharge to POTW since 2003)

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.

Principal product(s): Zinc plated electrical utility components

Raw material(s): Ferrous metal components, washing & plating solutions

F.6. Flow Rate.

a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharge into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

Zero (No discharge since 1998) gpd (continuous or intermittent)

b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

Unknown gpd (continuous or intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:

a. Local limits ☒ Yes ☐ No

b. Categorical pretreatment standards ☐ Yes ☐ No

If subject to categorical pretreatment standards, which category and subcategory?

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F.8. Problems at the Treatment Works Attributed to Waste Discharge by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?

☐ Yes ☒ No

If yes, describe each episode.

RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:

F.9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail or dedicated pipe?

☐ Yes ☐ No (go to F.12)

F.10 Waste transport. Method by which RCRA waste is received (check all that apply):

☐ Truck ☐ Rail ☐ Dedicated Pipe

F.11 Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).

EPA Hazardous Waste Number

Amount

Units

CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:

F.12 Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?

☐ Yes (complete F.13 through F.15.) ☐ No

F.13 Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).

F.14 Pollutants. List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary.)

F.15 Waste Treatment.

a. Is this waste treated (or will be treated) prior to entering the treatment works?

☐ Yes ☐ No

If yes, describe the treatment (provide information about the removal efficiency):

b. Is the discharge (or will the discharge be) continuous or intermittent?

☐ Continuous

☐ Intermittent

If intermittent, describe discharge schedule.

END OF PART F.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:

Five Mile Creek WWTP

AL0026913

Form Approved 1/14/99
OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete part F.

GENERAL INFORMATION:

F.1. Pretreatment program. Does the treatment works have, or is subject to, an approved pretreatment program?

☒ Yes ☐ No

F.2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.

a. Number of non-categorical SIUs. 6

b. Number of CIUs. 5

SIGNIFICANT INDUSTRIAL USER INFORMATION::

Supply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU.

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Kent Corporation

Mailing Address: P.O.BOX 170399

Birmingham AL 35217

F.4. Industrial Processes. Describe all the industrial processes that affect or contribute to the SIU's discharge.

Washing, phosphatizing, painting of cut, bent, formed & welded fabricated metal parts

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.

Principal product(s): Metal Store: Shelving and fixtures

Raw material(s): Ferrous metal, washing & phosphatizing solutions, powder paint or paint bath material

F.6. Flow Rate.

a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharge into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

25,500 gpd (X continuous or _____ intermittent)

b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

Unknown gpd (_____ continuous or _____ intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:

a. Local limits ☒ Yes ☐ No

b. Categorical pretreatment standards ☐ Yes ☐ No

If subject to categorical pretreatment standards, which category and subcategory?

40 CFR PART 433- Metal Finishing

FACILITY NAME AND PERMIT NUMBER:

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F.8. Problems at the Treatment Works Attributed to Waste Discharge by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?

☐ Yes ☒ No

If yes, describe each episode.

RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:

F.9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail or dedicated pipe?

☐ Yes ☐ No (go to F.12)

F.10 Waste transport. Method by which RCRA waste is received (check all that apply):

☐ Truck ☐ Rail ☐ Dedicated Pipe

F.11 Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).

EPA Hazardous Waste Number

Amount

Units

CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:

F.12 Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?

☐ Yes (complete F.13 through F.15.) ☐ No

F.13 Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).

F.14 Pollutants. List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary.)

F.15 Waste Treatment.

a. Is this waste treated (or will be treated) prior to entering the treatment works?

☐ Yes ☐ No

If yes, describe the treatment (provide information about the removal efficiency):

b. Is the discharge (or will the discharge be) continuous or intermittent?

☐ Continuous

☐ Intermittent

If intermittent, describe discharge schedule.

END OF PART F.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:

Five Mile Creek WWTP

AL0026913

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SUPPLEMENTAL APPLICATION INFORMATION

PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete part F.

GENERAL INFORMATION:

F.1. Pretreatment program. Does the treatment works have, or is subject to, an approved pretreatment program?

☒ Yes ☐ No

F.2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.

a. Number of non-categorical SIUs. 6

b. Number of CIUs. 5

SIGNIFICANT INDUSTRIAL USER INFORMATION::

Supply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU.

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Meadowcraft

Mailing Address: P.O.BOX 1357

Birmingham AL 35201

F.4. Industrial Processes. Describe all the industrial processes that affect or contribute to the SIU's discharge.

Bend, shape, cut, weld metal parts for casual furniture, wash, phosphatize & powder paint furniture

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.

Principal product(s): Casual outdoor furniture

Raw material(s): Ferrous & Non Ferrous metal, washing & painting materials, fabric and upholstery material

F.6. Flow Rate.

a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharge into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

5,000 gpd (☒ continuous or ☐ intermittent)

b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

Unknown gpd (☐ continuous or ☐ intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:

a. Local limits ☒ Yes ☐ No

b. Categorical pretreatment standards ☐ Yes ☐ No

If subject to categorical pretreatment standards, which category and subcategory?

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FACILITY NAME AND PERMIT NUMBER:

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F.8. Problems at the Treatment Works Attributed to Waste Discharge by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?

☐ Yes ☒ No

If yes, describe each episode.

RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:

F.9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail or dedicated pipe?

☐ Yes ☐ No (go to F.12)

F.10 Waste transport. Method by which RCRA waste is received (check all that apply):

☐ Truck ☐ Rail ☐ Dedicated Pipe

F.11 Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).

EPA Hazardous Waste Number

Amount

Units

CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:

F.12 Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?

☐ Yes (complete F.13 through F.15.) ☐ No

F.13 Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).

F.14 Pollutants. List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary.)

F.15 Waste Treatment.

a. Is this waste treated (or will be treated) prior to entering the treatment works?

☐ Yes ☐ No

If yes, describe the treatment (provide information about the removal efficiency):

b. Is the discharge (or will the discharge be) continuous or intermittent?

☐ Continuous

☐ Intermittent

If intermittent, describe discharge schedule.

END OF PART F.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:

Five Mile Creek WWTP

AL0026913

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SUPPLEMENTAL APPLICATION INFORMATION

PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete part F.

GENERAL INFORMATION:

F.1. Pretreatment program. Does the treatment works have, or is subject to, an approved pretreatment program?

☒ Yes ☐ No

F.2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.

a. Number of non-categorical SIUs. 6

b. Number of CIUs. 5

SIGNIFICANT INDUSTRIAL USER INFORMATION::

Supply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU.

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Max Coating

Mailing Address: 3668 Rockhill Circle

Birmingham AL 35223

F.4. Industrial Processes. Describe all the industrial processes that affect or contribute to the SIU's discharge.

Phosphatizing and washing components prior to coating with powder paint

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.

Principal product(s): Powder painted components from various sources

Raw material(s): Cleaners, powder paint

F.6. Flow Rate.

a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharge into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

4,500 gpd (☒ continuous or ☐ intermittent)

b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

Unknown gpd (☐ continuous or ☐ intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:

a. Local limits ☐ Yes ☐ No

b. Categorical pretreatment standards ☒ Yes ☐ No

If subject to categorical pretreatment standards, which category and subcategory?

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F.8. Problems at the Treatment Works Attributed to Waste Discharge by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?

☐ Yes ☒ No

If yes, describe each episode.

RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:

F.9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail or dedicated pipe?

☐ Yes ☐ No (go to F.12)

F.10 Waste transport. Method by which RCRA waste is received (check all that apply):

☐ Truck ☐ Rail ☐ Dedicated Pipe

F.11 Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).

EPA Hazardous Waste Number

Amount

Units

CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:

F.12 Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?

☐ Yes (complete F.13 through F.15.) ☐ No

F.13 Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).

F.14 Pollutants. List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary.)

F.15 Waste Treatment.

a. Is this waste treated (or will be treated) prior to entering the treatment works?

☐ Yes ☐ No

If yes, describe the treatment (provide information about the removal efficiency):

b. Is the discharge (or will the discharge be) continuous or intermittent?

☐ Continuous

☐ Intermittent

If intermittent, describe discharge schedule.

END OF PART F.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:

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AL0026913

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SUPPLEMENTAL APPLICATION INFORMATION

PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete part F.

GENERAL INFORMATION:

F.1. Pretreatment program. Does the treatment works have, or is subject to, an approved pretreatment program?

☒ Yes ☐ No

F.2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.

a. Number of non-categorical SIUs. 6

b. Number of CIUs. 5

SIGNIFICANT INDUSTRIAL USER INFORMATION::

Supply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU.

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Nutel Metal Finishing LLC

Mailing Address: P.O. BOX 170746

Birmingham AL 35217

F.4. Industrial Processes. Describe all the industrial processes that affect or contribute to the SIU's discharge.

Parts washing, Electroplating and chromating

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.

Principal product(s): Zinc and chromated metal parts

Raw material(s): Parts from different sources, cleaners, acids & plating solutions

F.6. Flow Rate.

a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharge into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

2,360 gpd (continuous or ☒ intermittent)

b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

Unknown gpd (continuous or intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:

a. Local limits ☐ Yes ☐ No

b. Categorical pretreatment standards ☒ Yes ☐ No

If subject to categorical pretreatment standards, which category and subcategory?

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FACILITY NAME AND PERMIT NUMBER:

Five Mile Creek WWTP

AL0026913

Form Approved 1/14/99
OMB Number 2040-0086

F.8. Problems at the Treatment Works Attributed to Waste Discharge by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?

☐ Yes ☒ No

If yes, describe each episode.

RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:

F.9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail or dedicated pipe?

☐ Yes ☐ No (go to F.12)

F.10 Waste transport. Method by which RCRA waste is received (check all that apply):

☐ Truck ☐ Rail ☐ Dedicated Pipe

F.11 Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).

EPA Hazardous Waste Number

Amount

Units

CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:

F.12 Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?

☐ Yes (complete F.13 through F.15.) ☐ No

F.13 Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is expected to originate in the next five years).

F.14 Pollutants. List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary.)

F.15 Waste Treatment.

a. Is this waste treated (or will be treated) prior to entering the treatment works?

☐ Yes ☐ No

If yes, describe the treatment (provide information about the removal efficiency):

b. Is the discharge (or will the discharge be) continuous or intermittent?

☐ Continuous

☐ Intermittent

If intermittent, describe discharge schedule.

END OF PART F.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE

FACILITY NAME AND PERMIT NUMBER:

Five Mile Creek WWTP

AL0026913

Form Approved 1/14/99
OMB Number 2040-0086

SUPPLEMENTAL APPLICATION INFORMATION

PART F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES

All treatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must complete part F.

GENERAL INFORMATION:

F.1. Pretreatment program. Does the treatment works have, or is subject to, an approved pretreatment program?

☒ Yes ☐ No

F.2. Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works.

- a. Number of non-categorical SIUs. 6
- b. Number of CIUs. 5

SIGNIFICANT INDUSTRIAL USER INFORMATION::

Supply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 and provide the information requested for each SIU.

F.3. Significant Industrial User Information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary.

Name: Ventura Foods Inc.

Mailing Address: 3900 Vanderbilt Rd.

Birmingham AL 35217

F.4. Industrial Processes. Describe all the industrial processes that affect or contribute to the SIU's discharge.

Manufacturing of margarine & butter from vegetable oils and dairy products

F.5. Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge.

Principal product(s): Margarine, Butter

Raw material(s): Vegetable oils, dyes, salt, dairy & flavorings

F.6. Flow Rate.

- a. Process wastewater flow rate. Indicate the average daily volume of process wastewater discharge into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

86,000 gpd (☒ continuous or ☐ intermittent)

- b. Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent.

Unknown gpd (☐ continuous or ☐ intermittent)

F.7. Pretreatment Standards. Indicate whether the SIU is subject to the following:

- a. Local limits ☒ Yes ☐ No
- b. Categorical pretreatment standards ☐ Yes ☐ No

If subject to categorical pretreatment standards, which category and subcategory?

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FACILITY NAME AND PERMIT NUMBER:

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F.8. Problems at the Treatment Works Attributed to Waste Discharge by the SIU. Has the SIU caused or contributed to any problems (e.g., upsets, interference) at the treatment works in the past three years?



Yes



No

If yes, describe each episode.

Intermittent problems created by FOG releases when pretreatment fails**RCRA HAZARDOUS WASTE RECEIVED BY TRUCK, RAIL, OR DEDICATED PIPELINE:**

F.9. RCRA Waste. Does the treatment works receive or has it in the past three years received RCRA hazardous waste by truck, rail or dedicated pipe?



Yes



No (go to F.12)

F.10 Waste transport. Method by which RCRA waste is received (check all that apply):



Truck



Rail



Dedicated Pipe

F.11 Waste Description. Give EPA hazardous waste number and amount (volume or mass, specify units).

EPA Hazardous Waste NumberAmountUnits

CERCLA (SUPERFUND) WASTEWATER, RCRA REMEDIATION/CORRECTIVE ACTION WASTEWATER, AND OTHER REMEDIAL ACTIVITY WASTEWATER:

F.12 Remediation Waste. Does the treatment works currently (or has it been notified that it will) receive waste from remedial activities?



Yes (complete F.13 through F.15.)



No

F.13 Waste Origin. Describe the site and type of facility at which the CERCLA/RCRA/or other remedial waste originates (or is excepted to originate in the next five years).

F.14 Pollutants. List the hazardous constituents that are received (or are expected to be received). Include data on volume and concentration, if known. (Attach additional sheets if necessary.)

F.15 Waste Treatment.

a. Is this waste treated (or will be treated) prior to entering the treatment works?



Yes



No

If yes, describe the treatment (provide information about the removal efficiency):

b. Is the discharge (or will the discharge be) continuous or intermittent?



Continuous



Intermittent

If intermittent, describe discharge schedule.

END OF PART F.**REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE**

FACILITY NAME AND PERMIT NUMBER:

Five Mile Creek WWTP

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SUPPLEMENTAL APPLICATION INFORMATION

PART G. COMBINED SEWER SYSTEMS

If the treatment works has a combined sewer system, complete Part G.

G.1. System Map. Provide a map indicating the following: (may be included with Basic Application Information)

- All CSO discharge points.
- Sensitive use areas potentially affected by CSOs (e.g., beaches, drinking water supplies, shellfish beds, sensitive aquatic ecosystems, and outstanding natural resource waters).
- Waters that support threatened and endangered species potentially affected by CSOs.

G.2. System Diagram. Provide a diagram, either in the map provided in G.1 or on a separate drawing, of the combined sewer collection system that includes the following information.

- Location of major sewer trunk lines, both combined and separate sanitary.
- Locations of points where separate sanitary sewers feed into the combined sewer system.
- Locations of in-line and off-line storage structures.
- Locations of flow-regulating devices.
- Locations of pump stations.

CSO OUTFALLS:

Complete questions G.3 through G.6 once for each CSO discharge point.

G.3 Description of Outfall.

- Outfall number _____
- Location _____
(city or town, if applicable) (Zip Code) _____
(County) (State) _____
(Latitude) (Longitude) _____
- Distance from shore (if applicable) _____ ft.
- Depth below surface (if applicable) _____ ft.
- Which of the following were monitored during the last year for this CSO?
☐ Rainfall ☐ CSO pollutant concentrations ☐ CSO frequency
☐ CSO flow volume ☐ Receiving water quality
- How many storm events were monitored during the last year? _____

G.4. CSO Events.

- Give the number of CSO events in the last year.
_____ events (☐ actual or ☐ approx.)
- Give the average duration per CSO event.
_____ hours (☐ actual or ☐ approx.)

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- c. Give the average volume per CSO event.
_____ million gallons (☐ actual or ☐ approx.)
- d. Give the minimum rainfall that caused a CSO event in the last year
_____ Inches of rainfall

G.5. Description of Receiving Waters.

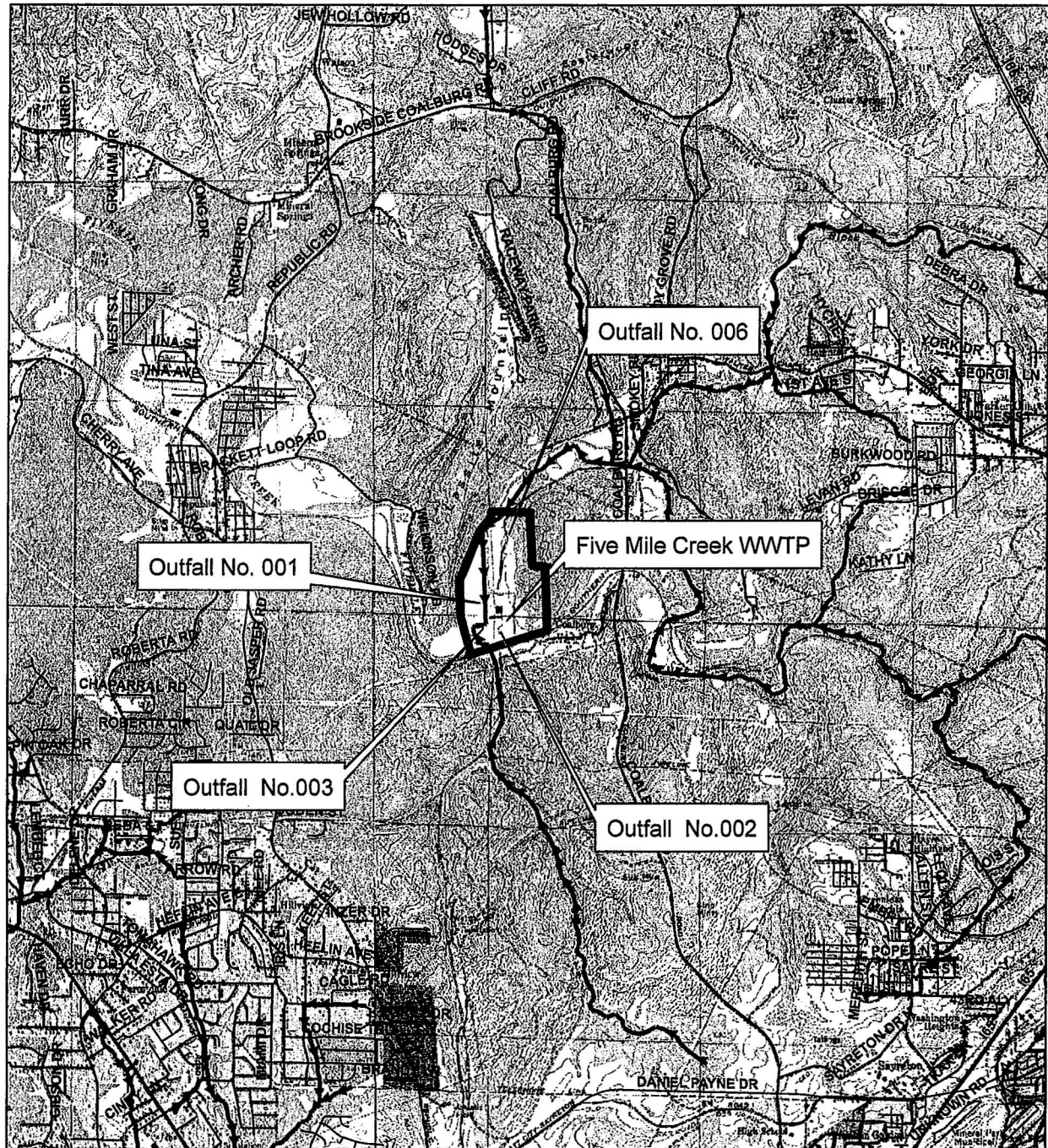
- a. Name of receiving water: _____
- b. Name of watershed/river/stream system: _____
United State Soil Conservation Service 14-digit watershed code (if known): _____
- c. Name of State Management/River Basin: _____
United States Geological Survey 8-digit hydrologic cataloging unit code (if known): _____

G.6. CSO Operations.

Describe any known water quality impacts on the receiving water caused by this CSO (e.g., permanent or intermittent beach closings, permanent or intermittent shell fish bed closings, fish kills, fish advisories, other recreational loss, or violation of any applicable State water quality standard).

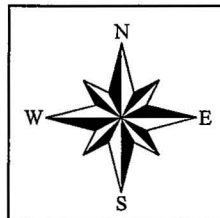
END OF PART G.

REFER TO THE APPLICATION OVERVIEW TO DETERMINE WHICH OTHER PARTS OF FORM 2A YOU MUST COMPLETE.



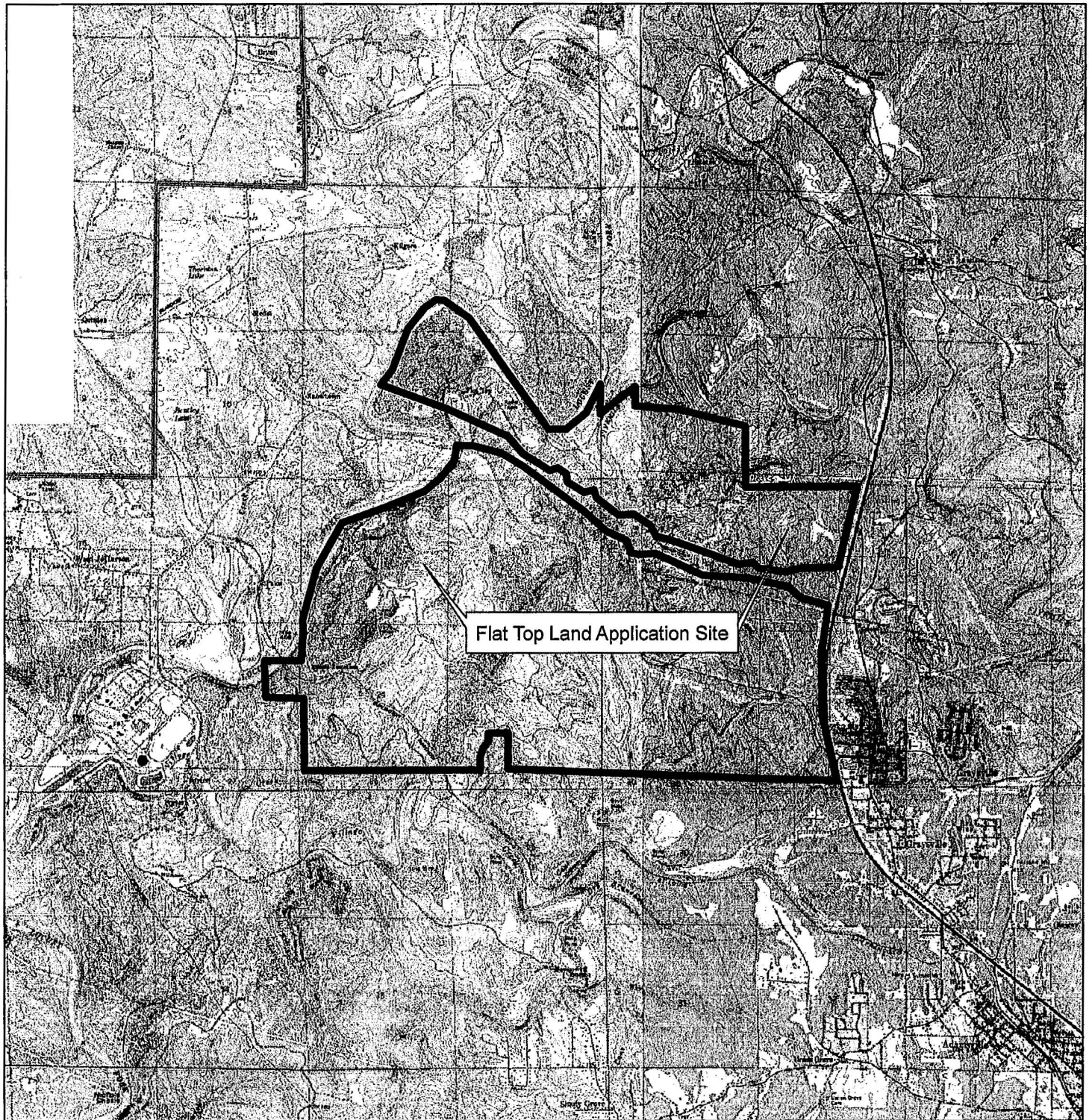
**Five Mile Creek WWTP
Jefferson County Commission**

Figure B.2



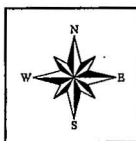
Facility Property Boundary

Quadrangle Scale: 1" = 3,000'
Sewer structures are not drawn to scale



**Flat Top Biosolids Land Application Site
for Five Mile Creek WWTP
Jefferson County Commission**

Figure B.2.e.2



Continued from the Front

IV. Narrative Description of Pollutant Sources

- A. For each outfall, provide an estimate of the area (include units) of impervious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

| Outfall Number | Area of Impervious Surface (provide units) | Total Area Drained (provide units) | Outfall Number | Area of Impervious Surface (provide units) | Total Area Drained (provide units) |
|----------------|--|------------------------------------|----------------|--|------------------------------------|
| 002 | 6.89 Ac | 29.15 Ac | 006 | 12.22 Ac | 18.58 Ac |
| 003 | 2.49 Ac | 3.31 Ac | | | |

- B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas; and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.


Primatol is used for weed control around fences, lagoon and holding ponds 2 times per year. Diazon fire ant bait is used as needed on ant hills. Gasoline and diesel fuel are stored in above ground double wall tanks. Personnel have been trained on proper handling and cleanup of petroleum products.

- C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

| Outfall Number | Treatment | List Codes from Table 2F-1 |
|----------------|-----------|----------------------------|
| | N/A | |

V. Non Stormwater Discharges

- A. I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharges from these outfall(s) are identified in either an accompanying Form 2C or Form 2E application for the outfall.

| | | |
|---|---|---------------------------------|
| Name of Official Title (type or print) Daniel A. White, P.E. Jefferson County ESD | Signature  | Date Signed 3-28-2007 |
|---|---|---------------------------------|

- B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

Analysis of accurate pipe diagrams and on-site inspection

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

N/A

VII. Discharge Information

A,B,C, & D: See instruction before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided. Tables VII-A, VII-B, and VII-C are included on separate sheets numbered VII-1 and VII-2.

E. Potential discharges not covered by analysis - is any toxic pollutant listed in table 2F-2, 2F-3, or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ Yes (list all such pollutants below)

☒ No (go to Section IX)

VIII. Biological Toxicity Testing Data

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on receiving water in relation to your discharge within the last 3 years?

☐ Yes (list all such pollutants below)

☒ No (go to Section IX)

IX. Contact analysis Information

Were any of the analysis reported in item VII performed by a contact laboratory or consulting firm?

☐ Yes (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

☒ No (go to Section X)

| A. Name | B. Address | C. Area Code & Phone No. | D. Pollutants Analyzed |
|---------|------------|--------------------------|------------------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

X. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. Name & Official Title (type or print)

Robert Henderson, Director Jefferson County Environmental Services

B. Area Code and Phone No.

205-325-5979

C. Signature

D. Date Signed

3/16/07

Continued from the Front

Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

[illegible]

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

| 1. Date of Storm Event | 2. Duration of Storm Event (in minutes) | 3. Total rainfall during storm event (in inches) | 4. Number of hours between beginning of storm measured and end of previous measurable rain event | 5. Maximum flow rate during rain event (gallons/minute or specify units) | 6. Total flow from rain event (gallons or specify units) |
|---------------------------|---|--|---|--|--|
| 1/29/06 | 264 | 0.7 | 150 | | 0.0420 MGD |

7. Provide a description of the method of flow measurement or estimate.

Calculated from Soil Conservation Method SCS-TR55

Continued from the Front

Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

[illegible]

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

| 1. Date of Storm Event | 2. Duration of Storm Event (in minutes) | 3. Total rainfall during storm event (in inches) | 4. Number of hours between beginning of storm measured and end of previous measurable rain event | 5. Maximum flow rate during rain event (gallons/minute or specify units) | 6. Total flow from rain event (gallons or specify units) |
|---------------------------|---|--|---|--|--|
| 1/29/06 | 264 | 0.7 | 150 | | 0.0243 MGD |

7. Provide a description of the method of flow measurement or estimate.

Calculated from Soil Conservation Method SCS-TR55

Continued from the Front

Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

[illegible]

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

| 1. Date of Storm Event | 2. Duration of Storm Event (in minutes) | 3. Total rainfall during storm event (in inches) | 4. Number of hours between beginning of storm measured and end of previous measurable rain event | 5. Maximum flow rate during rain event (gallons/minute or specify units) | 6. Total flow from rain event (gallons or specify units) |
|---------------------------|---|--|---|--|--|
| 1/29/06 | 264 | 0.7 | 150 | | 0.0480 MGD |

7. Provide a description of the method of flow measurement or estimate.

Calculated from Soil Conservation Method SCS-TR55

SUPPLEMENTARY INFORMATION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
PERMIT APPLICATION FORM 188- Municipal, Semi-Public & Private Facilities

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WATER DIVISION – MUNICIPAL SECTION
POST OFFICE BOX 301463
MONTGOMERY, ALABAMA 36130-1463

INSTRUCTIONS: APPLICATIONS SHOULD BE TYPED OR PRINTED IN INK AND SUBMITTED TO THE DEPARTMENT IN DUPLICATE. PLEASE CONTINUE ON AN ATTACHED SHEET OF PAPER IF INSUFFICIENT SPACE IS AVAILABLE TO ADDRESS ANY ITEM BELOW. PLEASE MARK N/A IN THE APPROPRIATE BOX WHEN AN ITEM IS NON-APPLICABLE TO THE APPLICANT.

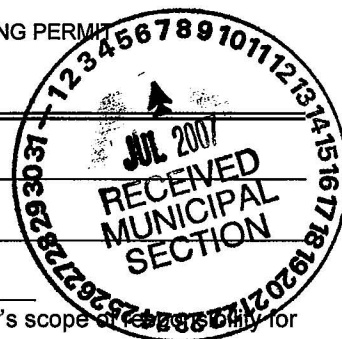
PURPOSE OF THIS APPLICATION

- ___ ☐ INITIAL PERMIT APPLICATION FOR NEW FACILITY ___ ☐ INITIAL PERMIT APPLICATION FOR EXISTING FACILITY
___ ☐ MODIFICATION OF EXISTING PERMIT ___ ☒ REISSUANCE OF EXISTING PERMIT
___ REVOCATION & REISSUANCE OF EXISTING PERMIT

1. Facility Name: **Five Mile Creek WWTP**

a. Operator Name: **Jefferson County Commission**

- b. Is the operator identified in 1.a, the owner of the facility? ☒ Yes ☐ No
If no, provide the name and address of the operator and submit information indicating the operator's scope of responsibility for the facility.



2. NPDES Permit Number **AL 0026913**

3. Facility Location: (Attach a map with location marked; street, route no. or other specific identifier)

Street: **3410 Happy Hollow Lane**

City: **Fultondale** County: **Jefferson** State: **AL.** Zip: **35068**

4. Facility Mailing Address (Street or Post Office Box): **Suite A-300,716 Richard Arrington, Jr.Blvd, North**

City: **Birmingham** County: **Jefferson** State: **AL.** Zip: **35203**

5. Responsible Official (as described on page 7 of this application):

Name and Title: **Robert Henderson, Director**

Address: **Suite A-300,716 Richard Arrington, Jr.Blvd, North**

City: **Birmingham** State: **AL.** Zip: **35203**

Phone Number: **205-325-5979**

6. Designated Facility Contact:

Name and Title: **Same as No.5 above**

Phone Number: _____

7. Please complete this section if the Applicant's business entity is a Proprietorship or limited liability Corporation with a responsible official not listed in Item 5.

Proprietor: **N/A**

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

8. Permit numbers for Applicant's previously issued NPDES Permits and identification of any other State Environmental Permits presently held by the Applicant within the State of Alabama:

| <u>Permit Name</u> | <u>Permit Number</u> | <u>Held by</u> |
|-----------------------------|----------------------|---------------------------------|
| Five Mile Creek WWTP | AL0026913 | Jefferson Co. Commission |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

9. Identify all Administrative Complaints, Notices of Violation, Directives, or Administrative Orders, Consent Decrees, or Litigation concerning water pollution or other permit violations, if any against the Applicant within the State of Alabama in the past five years (attach additional sheets if necessary):

| <u>Facility Name</u> | <u>Permit Number</u> | <u>Type of Action</u> | <u>Date of Action</u> |
|----------------------|----------------------|-----------------------|-----------------------|
| N/A | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

SECTION A- WASTEWATER DISCHARGE INFORMATION

1. List the following historical monthly flow rates recorded for the past five years for each outfall:

| <u>Outfall Number</u> | <u>Highest in Last 12 Months MGD</u> | <u>Highest Daily Flow MGD</u> | <u>Average Flow MGD</u> |
|-----------------------|---|-----------------------------------|--|
| 001 | 22.3 ^{2/1/2006 - 2/28/2006} | 49.4 ^{9/06/2005} | 14.8 ^{01/2002 - 12/2006} |
| _____ | _____ | _____ | _____ |

2. Attached a process flow schematic of the treatment process, including the size of each unit operation.

***See figures B.3.a and B.3.b**

3. Do you have, or plan to have, automatic sampling equipment or continuous wastewater flow metering equipment at this facility?

| | | | | |
|----------|--------------------|--------------|---------------|----------------|
| Current: | Flow Metering | Yes <u>x</u> | No <u> </u> | N/A <u> </u> |
| | Sampling Equipment | Yes <u>x</u> | No <u> </u> | N/A <u> </u> |
| Planned: | Flow Metering | Yes <u>x</u> | No <u> </u> | N/A <u> </u> |
| | Sampling Equipment | Yes <u>x</u> | No <u> </u> | N/A <u> </u> |

If so, please attach a schematic diagram of the sewer system indicating the present or future location of this equipment and describe the equipment below:

All automatic sampling is performed by ISCO 3710 samplers. Continuous flowmetering is performed by PolySonic USM 84 strap on, EIT ultrasonic, Milltronics HydroRanger ultrasonic, and magnetic flowmeters as indicated in Figures B.3.a and B.3.b.

4. Are any wastewater collection or treatment modifications or expansions planned during the next three years that could alter wastewater volumes or characteristics? ☒ Yes ☐ No

Briefly describe these changes and any potential or anticipated effects on the wastewater quality and quantity: (Attach additional sheets if needed.)

The WWTP is currently being upgraded with new processes as shown in Figure B.3.b. The chlorination and dechlorination process will be replaced by UV disinfection in the Fall of 2007.

SECTION B – WASTE STORAGE AND DISPOSAL INFORMATION

Describe the location of all sites used for the storage of solids or liquids that have any potential for accidental discharge to a water of the state, either directly or indirectly via storm sewer, municipal sewer, municipal wastewater treatment plants, or other collection or distribution systems that are located at or operated by the subject existing or proposed NPDES-permitted facility. Indicate the location of any potential release areas and provide a map or detailed narrative description of the areas of concern as an attachment to this application: *See figure 2.F.III.b

Description of Waste

Municipal Wastewater Biosolids

Diesel Fuel

Gasoline

Description of Storage Location

Covered Drying Beds

Double wall steel storage tank

Double wall steel storage tank

Describe the location of any sites used for the ultimate disposal of solid or liquid waste materials or residuals (e.g. sludges) generated by any wastewater treatment system located at the facility.

Description of Waste

Quantity (lbs/day)

Disposal Method*

Municipal Wastewater Biosolids

4,783

Offsite land application at the Beltona and Flat Top site. See figures B.2.e.1 & B.2.e.2

***Indicate any wastes disposed at an off-site treatment facility and any wastes that are disposed on-site**

SECTION C – INDUSTRIAL INDIRECT DISCHARGE CONTRIBUTORS

1. List the existing and proposed industrial source wastewater contributions to the municipal wastewater treatment system (Attach other sheets if necessary)

| Company Name | Description of Industrial Wastewater | Existing or Proposed | Flow (MGD) | Subject to SID Permit? Y/N |
|----------------------------------|---|----------------------|----------------|----------------------------|
| Maclean Dixie LLC | Metal finishing operations | Existing | Unknown | Y |
| Kent Corporation | Metal finishing operations | Existing | 0.025 | Y |
| Meadowcraft | Metal finishing operations | Existing | 0.005 | Y |
| Max Coating | Phosphatizing and washing components | Existing | 0.004 | Y |
| Nutel Metal Finishing LLC | Metal finishing operations | Existing | 0.002 | Y |
| Ventura Foods Inc. | Fats, Oil and Grease (FOG) | Existing | 0.086 | Y |

2. Are industrial wastewater contributions regulated via a locally approved sewer use ordinance [Y/N]? If so, please attach a copy of the ordinance. **Y**

SECTION D – COASTAL ZONE INFORMATION

Is the discharge(s) located within the 10-foot elevation contour and within the limits of Mobile or Baldwin County?
Yes [] No [**X**] If yes, then complete items A through M below:

| | YES | NO |
|--|-------|-------|
| A. Does the project require new construction? N/A | _____ | _____ |
| B. Will the project be a source of new air emissions? | _____ | _____ |
| C. Does the project involve dredging and/or filling of a wetland area or water way? | _____ | _____ |
| Has the Corps of Engineers (COE) permit been issued? | _____ | _____ |
| Corps Project Number _____ | | |
| D. Does the project involve wetlands and/or submersed grassbeds? | _____ | _____ |
| E. Are oyster reefs located near the project site? (Include a map showing project and discharge location with respect to oyster reefs) | _____ | _____ |
| F Does the project involve the site development, construction and operation of an energy facility as defined in ADEM Admin. Code R. 335-8-1-.02(bb)? | _____ | _____ |
| G. Does the project involve mitigation of shoreline or costal area erosion? | _____ | _____ |
| H. Does the project involve construction on beaches or dunes areas? | _____ | _____ |
| I. Will the project interfere with public access to coastal waters? | _____ | _____ |
| J. Does the project lie within the 100-year floodplain? | _____ | _____ |
| K. Does the project involve the registration, sale, use, or application of pesticides? | _____ | _____ |
| L. Does the project propose or require construction of a new well or to alter an existing groundwater well to pump more than 50 gallons per day (GPD)? | | |

M. Has the applicable permit for groundwater recovery or for groundwater well installation
been obtained?

SECTION E-- ANTI-DEGRADATION EVALUATION

It is the applicant's responsibility to demonstrate the social and economic importance of the proposed activity, if subject to antidegradation requirements. In accordance with 40 CFR 131.12 and Section 335-6-10-.04 of the Alabama Department of Environmental Management Administrative Code, the following information must be provided, if applicable. If further information is required to make this demonstration, attach additional sheets to the application.

1. Is this a new or increased discharge that began after April 3, 1991? Yes [☐] No [☒].
If "yes", complete question 2 below. If "no", do not complete this section.
2. Has an Anti-Degradation Analysis been previously conducted and submitted to the Department for the new or increased discharge referenced in question 1? N/A Yes [☐] No [☐].

If "no", complete questions A through F below and also ADEM forms 311 and 312 or 313, whichever is applicable, (attached). Form 312 or 313, whichever is applicable, must be provided for each treatment discharge alternative considered technically viable. If "yes", do not complete this section.

Information required for new or increased discharges to high quality waters:

- A. What environmental or public health problem will the discharger be correcting?
- B. Explain if and to what degree the discharger will be increasing employment as a result of the proposed discharge, either at its existing facility or as the result of the start-up of a related new facility or industry.
- C. Explain if and to what degree the discharge will prevent employment reductions?
- D. Describe any additional state or local taxes that the prospective discharger will be paying.
- E. Describe any public service the discharger will be providing to the community.
- F. Describe the economic or social benefit the discharger will be providing to the community.

SECTION F – EPA Application Forms

All Applicants must submit certain EPA permit application forms. More than one application form may be required from a municipal facility depending on the number and types of discharges or outfalls. The EPA application forms are found on the Department's website at <http://www.adem.state.al.us/> and are also listed in Attachment 4. The EPA application forms must be submitted to ADEM in duplicate.

SECTION G-- ENGINEERING REPORT/BMP PLAN REQUIREMENTS

Any Engineering Report or Best Management Practice (BMP) Plans required to be submitted to ADEM by the applicant must be in accordance with ADEM 335-6-6-.08(i) & (j).

SECTION H- APPLICATION CERTIFICATION

THE INFORMATION CONTAINED IN THIS FORM MUST BE CERTIFIED BY A RESPONSIBLE OFFICIAL AS DEFINED IN ADEM ADMINISTRATIVE RULE 335-6-6-.09 "SIGNATORY REQUIREMENTS FOR PERMIT APPLICATIONS" (SEE BELOW).

"I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

"I FURTHER CERTIFY UNDER PENALTY OF LAW THAT THE RESULTS OF ANY ANALYSES REPORTED AS LESS THAN DETECTABLE IN THIS APPLICATION OR IN ATTACHMENTS THERETO WERE PERFORMED USING THE EPA APPROVED TEST METHOD HAVING THE LOWEST DETECTION LIMIT READILY ACHIEVABLE FOR THE SUBSTANCE TESTED."

SIGNATURE OF RESPONSIBLE OFFICIAL: _____ DATE SIGNED: _____

(TYPE OR PRINT)

NAME OF RESPONSIBLE OFFICIAL: Robert Henderson

OFFICIAL TITLE OF RESPONSIBLE OFFICIAL: Director, Jefferson County Environmental Services Dept.

MAILING ADDRESS: Suite A-300,716 Richard Arrington Jr.Bld N., B'ham, AL.35203

AREA CODE & PHONE NUMBER: 205-325-5979

SIGNATORY REQUIREMENTS FOR PERMIT APPLICATIONS

Responsible official is defined as follows:

1. In the case of a municipal, state, federal, or other public facility, the responsible official is either a principal executive officer or a ranking elected official of the municipality or other public entity.
2. In the case of a private or semi-public facility, the responsible official is either a principal executive officer or the owner of the corporation or other entity.

Attachment 1 to Supplementary Form ADEM Form 311

Alternatives Analysis

N/A- antidegradation does not apply as per conversation between Glenda Dean and Lynn King on 6/25/2007.

Applicant/Project: _____

All new or expanded discharges (except discharges eligible for coverage under general permits) covered by the NPDES permitting program are subject to the provisions of ADEM's antidegradation policy. Applicants for such discharges to Tier 2 waters are required to demonstrate "... that the proposed discharge is necessary for important economic or social development." As a part of this demonstration, the applicant must complete an evaluation of the discharge alternatives listed below, including a calculation of the total annualized project costs for each technically feasible alternative (using ADEM Form 312 for public-sector projects and ADEM Form 313 for private-sector projects). Alternatives with total annualized project costs that are less than 110% of the total annualized project costs for the Tier 2 discharge proposal are considered viable alternatives.

| Alternative | Viable | Non-Viable | Comment |
|---|--------|------------|---------|
| 1 Land Application | | | |
| 2 Pretreatment/Discharge to POTW | | | |
| 3 Relocation of Discharge | | | |
| 4 Reuse/Recycle | | | |
| 5 Process/Treatment Alternatives | | | |
| 6 On-site/Sub-surface Disposal | | | |
| <i>(other project-specific alternatives considered by the applicant; attach additional sheets if necessary)</i> | | | |
| 7 | | | |
| 8 | | | |
| 9 | | | |

Pursuant to ADEM Administrative Code Rule 335-6-3-.04, I certify on behalf of the applicant that I have completed an evaluation of the discharge alternatives identified above, and reached the conclusions indicated.

Signature: _____
(Professional Engineer)

Date: _____

(Supporting documentation to be attached, referenced, or otherwise handled as appropriate.)

Attachment 2 to Supplementary Form

Calculation of Total Annualized Project Costs for Public-Sector Projects

N/A- antidegradation does not apply as per conversation between Glenda Dean and Lynn King on 6/25/2007.

A. Capital Costs

Capital Cost of Project \$ _____

Other One-Time Costs of Project (Please List, if any):

_____ \$ _____

_____ \$ _____

_____ \$ _____

Total Capital Costs (Sum column) \$ _____ (1)

Portion of Capital Costs to be Paid for with Grant Monies \$ _____ (2)

Capital Costs to be Financed [Calculate: (1) – (2)] \$ _____ (3)

Type of Financing (e.g., G.O. bond, revenue bond, bank loan) _____

Interest Rate for Financing (expressed as decimal) _____ (i)

Time Period of Financing (in years) _____ (n)

Annualization Factor = $\frac{i}{(1+i)^n - 1} + i$ _____ (4)

Annualized Capital Cost [Calculate: (3) x (4)] _____ (5)

B. Operating and Maintenance Costs

Annual Costs of Operation and Maintenance (including but not limited to: monitoring, inspection, permitting fees, waste disposal charges, repair, administration and replacement.) (Please list below.)

_____ \$ _____

_____ \$ _____

_____ \$ _____

_____ \$ _____

Total Annual O & M Costs (Sum column) \$ _____ (6)

C. Total Annual Cost of Pollution Control Project

Total Annual Cost of Pollution Control Project [(5) + (6)]

| |
|--------------|
| \$ _____ (7) |
|--------------|

Attachment 3 to Supplementary Form ADEM Form 313

Calculation of Total Annualized Project Costs for Private-Sector Projects

N/A

Capital Costs to be Financed (Supplied by applicant) \$ _____ (1)

Interest rate for Financing (Expressed as a decimal) _____ (i)

Time Period of Financing (Assume 10 years*) 10 years (n)

Annualization Factor = $\frac{i}{(1+i)^{10} - 1} + i$ _____ (2)

Annualized Capital Cost [Calculate: (1) x (2)] \$ _____ (3)

Annual Cost of Operation and Maintenance
(including but not limited to monitoring, inspection, permitting fees, waste
disposal charges, repair, administration and replacement)** \$ _____ (4)

Total Annual Cost of Pollution Control Project [(3) + (4)] \$ _____ (5)

* While actual payback schedules may differ across projects and companies, assume equal annual payments over a 10-year period for consistency in comparing projects.

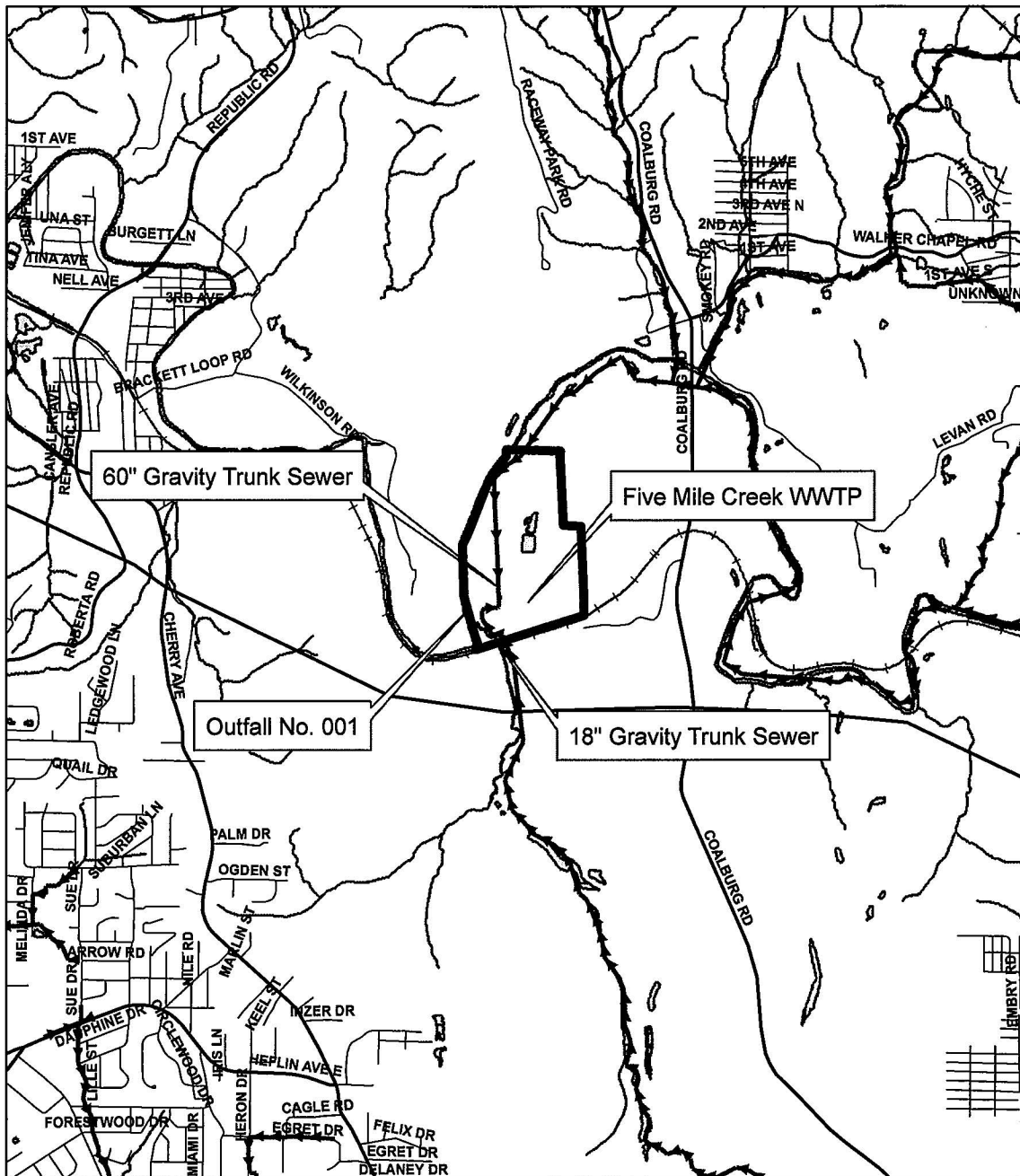
** For recurring costs that occur less frequently than once a year, pro rate the cost over the relevant number of years (e.g., for pumps replaced once every three years, include one-third of the cost in each year).

Attachment 4 to Supplementary Form

NPDES PROGRAM PERMIT APPLICATION FORMS ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

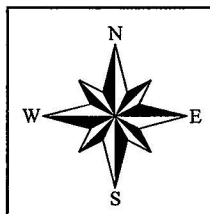
| TYPE DISCHARGE | ADEM FORMS | EPA FORMS |
|--|--|---|
| New or existing once through non-contact cooling water and/or cooling tower blowdown, and/or sanitary wastewater (non-process wastewater only). Note: POTWs must use Form 2A. | Supplemental Information Form 187 – (Industrial) or Form 188 (Municipal) | Forms 1 and 2E |
| Existing discharges of process wastewater | Supplemental Information Form 187 – (Industrial) or Form 188 (Municipal) | Forms 1 and 2C |
| New discharges of process wastewater | Supplemental Information Form 187 – (Industrial) or Form 188 (Municipal) | Forms 1 and 2D |
| New or existing discharges composed entirely of stormwater meeting the EPA definition of stormwater associated with industrial activity | Supplemental Information Form 187 – (Industrial) or Form 188 (Municipal) | Forms 1 and 2F |
| New or existing discharges composed of stormwater meeting the EPA definition of stormwater associated with industrial activity, and any other non-stormwater discharges. | Supplemental Information Form 187 – (Industrial) or Form 188 (Municipal) | Forms 1 and 2F and, as appropriate, Forms 2E, 2C, and/or 2D |
| New or existing Publicly-Owned Treatment Works (POTWs) and Privately-Owned Treatment Works composed of sanitary wastewater | Supplemental Information Form 187 – (Industrial) or Form 188 (Municipal) | Forms 1 and 2A |
| New or existing land application of process wastewater. Form 2F is required for stormwater runoff from the land application site, if the site is not completely bermed to prevent runoff. | Supplemental Information Form 187 | Forms 1, 2F, and 2C or 2D, as appropriate |
| New or existing land application of sanitary wastewater. Form 2F is required for stormwater runoff from the land application site, if the site is not completely bermed to prevent runoff. | Supplemental Information Form 187 – (Industrial) or Form 188 (Municipal) | Forms 1, 2F, and 2A or 2E, as appropriate |

Testing requirements: Test procedures for all analyses shall conform to 40 CFR Part 136. If more than one method of analysis is approved, then the method having the lowest detection level shall be used. Any facilities discharging to mercury impaired surface waters identified by EPA or ADEM [as identified on the latest §303(d) List] and any facility with a discharge that has reasonable potential to cause in-stream exceedence of a Water Quality Based Effluent Limit (WQBEL) shall be required to use EPA Method 1631E.



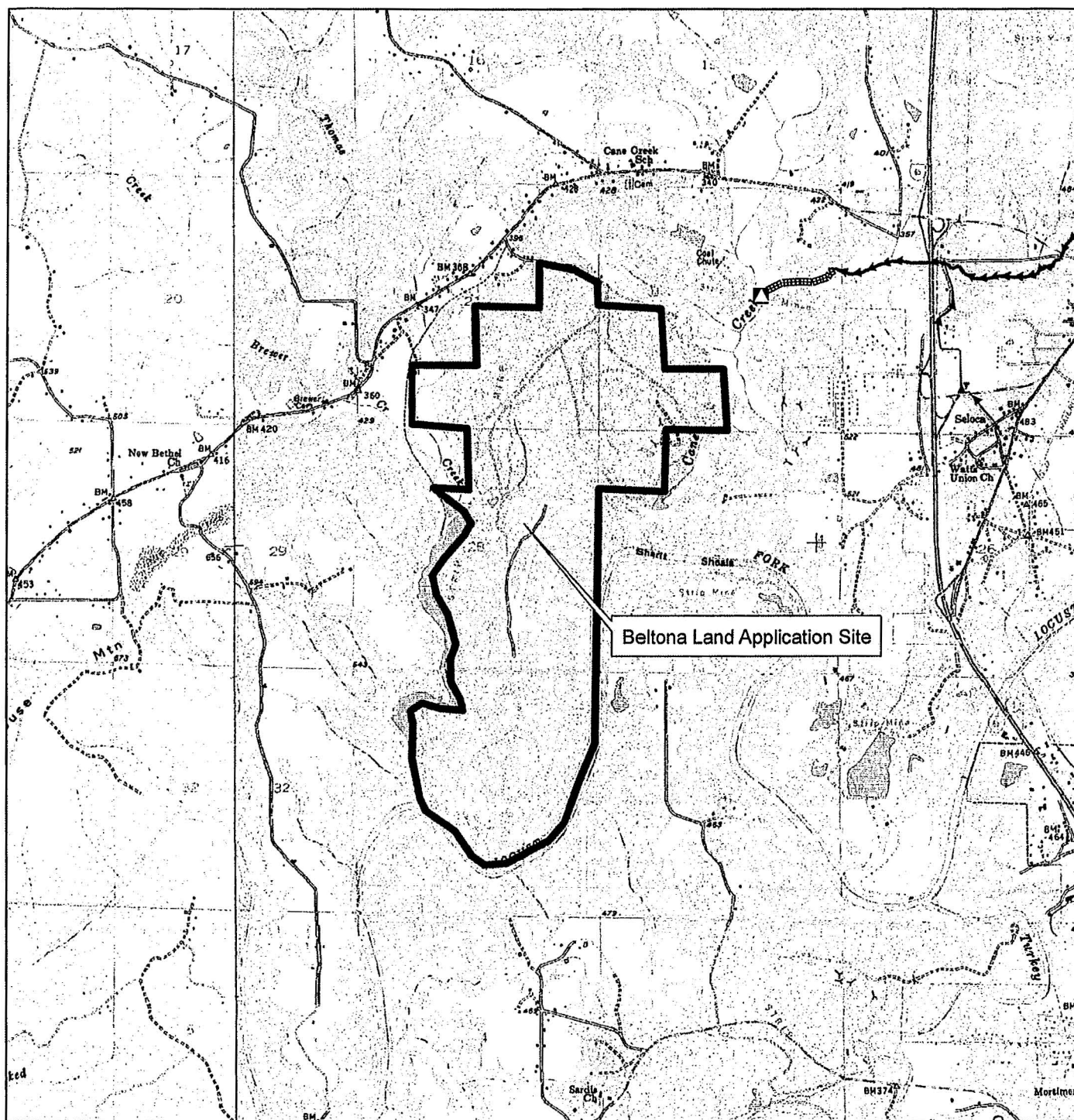
Five Mile Creek WWTP
Jefferson County Commission

Figure 1



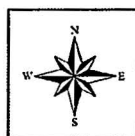
 Facility Property Boundary

Quadrangle Scale: 1" = 3,000'
 Sewer structures are not drawn to scale



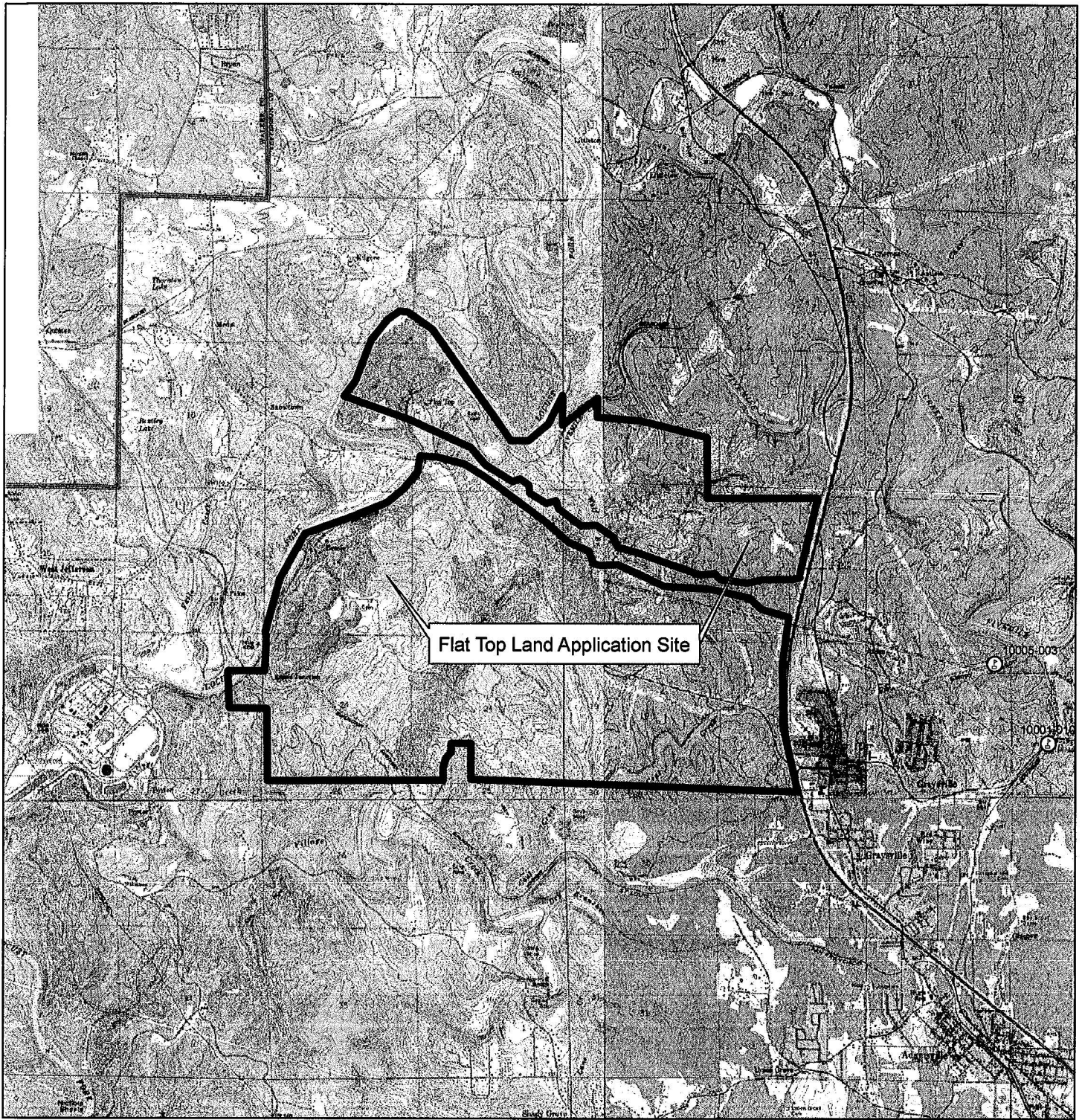
**Beltona Biosolids Land Application Site
for Five Mile Creek WWTP
Jefferson County Commission**

Figure B.2.e.1



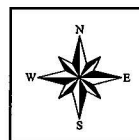
 Facility Property Boundary

Quadrangle Scale: 1" = 3,000'



**Flat Top Biosolids Land Application Site
for Five Mile Creek WWTP
Jefferson County Commission**

Figure B.2.e.2



Facility Property Boundary

Quadrangle Scale: 1" = 5,000'